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AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMHOATS, MACHINERY

AND MINES.



ESTABLISHED 1831.



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SATURDAY, JANUARY 30, 1847. [WHOLE No. 554, Vol. XX.

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AMERICAN RAILROAD JOURNAL.

OFFICE AT THE FRANKLIN HOUSE, 105 Chestnut Street,

PHILADELPHIA, PA.

This is the only periodical having a general circulation throughout the Union, in which all matters connected with public works can be brought to the notice of all persons in any way interested in thes undertakings. Hence it offers peculiar a vantages for advertising times of departure, rates of fare and freight, improvements in machinery; materials, as iron, timber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of new undertakings fairly before the public.

TERMS. - Five Dollars a year, in advance.

DATES OF ADVEDTICING

RAIDS OF ADVERTISING		30-4
One page per annum\$	125	00
One column "	50	00
One square "	15	00
One page per month	20	00
One column "	8	00
One square "	2	50
One page, single insertion	8	00
One column " " ,	3	00
One square " "	. 1	00
Professional notices per annum.	5	00

BOSTON AND PROVIDENCE RAIL-road. Passenger Notice. Summer Arrange-Summer Arrange

road. Passenger Notice. Summer Arrangement. On and after Monday, Sept. 28, 1846, the Passenger Trains will run as follows:

For New York—Night Line, via Stonington. Leaves Boston every day, but Sunday, at 5 p.m.

Accommodation Trains, leave Boston at 74 a.m. and 33 p.m., and Providence at 8 a.m. and 34 p.m.

Dedham trains, leave Boston at 9 a.m., 3 p.m., by p.m., and 101 p.m. Leave Boston at 114 a.m. and 410 p.m. Leave Stoughton trains, leave Boston at 114 a.m. and 410 p.m. Leave Stoughton at 8 a.m. and 24 p.m.

Stoughton trains, leave Boston at 114 a.m. and 410 p.m. Leave Stoughton at 8 a.m. and 24 p.m.

BRANCH RAILROAD and STAGES CONnecting with the Boston and Providence Railroad.

Stages connect with the Accommodation trains at the Foxboro' Station, to and from Woonsocket. At the Sharon Station, to and from Lonsdale, R. I. via Pawtucket. At the Sharon Station, to and firm Walpole, Mass. And at Dedham Village Station, to and from Bristol, via Warren, R. I. Taunton, New Bedford and Fall River cars run in connection with the accommodation trains.

BOSTON AND MAINE RAILROAD.
Upper Route, Boston to Portland via, Reading,

Andover, Haverhill, Exeter, Dover, Great Falls, South & North , Wells, Kennebunk and Saco.

Winter Arrangement, 1846-7.
On and after October 5th, 1846, Passenger Trains will leave daily, (Sundays excepted,) as follows:
Boston for Portland at 7½ a.m. and 2½ p.m.
Boston for Great Falls at 7½ a.m., 2½ and 3-25

Boston for Haverhill at 71 and 111 a.m., 21, 3-25

and 5 p.m.

Boston for Reading at 71, and 111 a.m., 21, 3-25

and 61 p.m.
Portland for Boston at 71 a.m., and 3 p.m.
Great Falls for Boston at 61 and 91 a.m., and 44

Haverhill for Boston at 71, 81, and 11 a.m. and

3 and 61 p.m.

3 and 6‡ p.m.

Reading for Boston at 7, 8‡ and 9‡ a.m., 12 m.,
14, 4 and 7‡ p.m.

The Depot in Boston is on Haymarket Square.

Passengers are not allowed to carry Baggage above \$50 in value, and that personal Baggage, unless notice is given, and an extra amount paid, at 00 the rate of the price of a Ticket for every \$500

50 additional value. CHAS. MINOT, Super't. 00 THE BEST RAILROAD ROUTE TO THE Lake and Buffalo, from Cincinnati.

Take Cars to Xenia, 65

Take Cars to Xenia, 65
miles; take Stage to Mansfield, 88 miles; thence by Cars to Sandusky, 56
miles to the Lake; thence Steamboat to Buffalo, 230
miles.

SUMMER ARRANGEMENT.—NEW YOUR APRIL Ist until further notice, will run daily (Sundays excepted) between the city of New York and Middle Goshen, and intermediate places, as follows:

FOR PASSENGERS—
Leave New York at 7 A.M. and 4 P.M.

"Middletown at 61 A.M. and 51 P.M.

FARE REDUCED to \$1 25 to Middletown—way in proportion. Breakfast, supper and berths can be had on the steamboat.

Leave New York at 5 P. M.

"Middletown at 12 M.

The names of the consignee and of the station where to be left, must be distinctly marked upon each article shipped. Freight not received after 5 P. M. in New York.

Apple 16 J. D. Ch.

Apply to J. F. Clarkson, agent, at office corner of Juane and West sts. H. C. SEYMOUR, Supt. March 25th, 1846.

Stages run daily from Middletown, on the arrival of the afternoon train, to Milford, Carbondale, Honesdale, Montrose, Towanda, Owego, and West; also to Monticello, Windsor, Binghamton, Ithaca, etc., etc. Agent on board.

NORWICH AND WORCESTER RAIL-Road. Summer Arrangement, commencing

Monday, April 6, 1846. Accommodation Trains, daily, except Sunday. Leave Norwich, at 6 a.m., and 44 p.m. Leave Worcester, at 10 a.m., and 44 p.m.

The morning Accommodation Trains from Norwich, and from Worcester, connect with the trains of the Boston, and Worcester and Western railroads each way.

railroads each way.

The Evening Accommodation Train from Worcester connects with the 1½ p.m. train from Boston.

New York Train via Long Island Railroad:
Leave Allyn's Point for Boston, about 1 p.m., daily, except Sunday.

Leave Worcester for New York, about 10 a.m., stopping at Webster, Danielsonville, and Norwich.

New York Train via Steamboat—Leave Norwich for Boston, every morning, except Monday, on the arrival of the stamboat from New York, stopping at Norwich and Danielsonville. ping at Norwich and Danielsonville.

Leave Worcester for New York, upon the arrival of the train from Boston, at about 41 p.m., daily, except Sunday, stopping at Webster, Danielsonville and Norwich.

Freight Trains daily each way, except Sunday Special contracts will be made for cargoes, or la quanties of freight, on application to the superint dent.

Places are Less when paid for Tickets than when paid in the Cars. II J W. STOWELL, Sup't.

ROY RAILROADS.—IMPORTANT NO- NEW RAILROAD ROUTE FROM BUFTroy and Greenbush Railroad, forming fale to Cincinnati.

Passengers destined for the continuous track from Boston. TROY RAILROADS.—IMPORTANT NOtice.—Troy and Greenbush Railroad, forming
a continuous track from Boston
to Buffulo and Saratoga Springs.

This road is new, and laid with the heaviest iron H
rail. Trains will always be run on this road connecting at Greenbush each way with the trains to
and from Baston and infermediate places, leaving
Greenbush daily at 14 p.m. and 6 p.m., or on arrival of the trains from Boston; leave Troy at 74 a.
m. and 44 p.m., or to connect with trains to Boston
Trains also run hourly on this road between Troy
and Albany. Running time between Greenbush
and Troy, 15 minutes.

TROY AND SCHENECTADY RAILROAD.
This toad is laid its entire length with the heaviest if rail—which is not the fact with the rood from Albany. Trains will always be run on this road connecting each way, to and from Buffalo and intermediate places. Leave Troy for Buffalo at 7½ a.m. and 1 p.m. and 6½ p.m., or to connect with the trains for the west; leave Schenectady at 2½ a.m., 8½ a.m., 1 p.m. and 5½ p.m., or on arrival of the trains from Buffalo and intermediate places.

TROY AND SARATOGA RAILROAD. THE ONLY DIRECT ROUT

No change of passenger, baggage or other cars on this route. Cars leave Troy for Ballston, Saratoga Springs, Lake George and White Hall at 71 a.m., (arriving one hour in advance of the train from Albany,) and at 31 p.m. Returning, leave Saratoga at 9 a.m. and 34 p.m., (reaching Troy in time for the evening boats to New York.) Cars also leave Troy for the Burrough at 31 p.m. and 7 p.m., connecting with packet boats for the north. This takes passengers from New York and Boston to Montreal in 44 hours.

N.B. Travellers will find the routes through Troy most convenient and economical, and as expeditious as any other. The steamboals to and from New York land within a few steps of the railroad office, and passengers are taken up and landed by the different railroad lines at the doors of principal hotels, thus saving all necessity for, and annoyance from, hack drivers, cabmen, runners, etc.

Aug 3, 1846.

BALTIMORE AND OHIO RAILROAD.
MAIN STEM. The Train carrying the

Great Western Mail leaves Baltimore every morning at 71 and Cumberland at 8 o'clock, passing Ellicou's Mills, Frederick, Harpers Ferry, Martinsburgh and Hancock, conneting daily each way with—the Washington Trains at the Relay House seven miles from Baltimore, with the Winchester Trains at Harpers Ferry—with the various railroad and steamboat lines between Baltimore and Philadelphia and with the lines of Post Coaches between Cumberland and Wheeling and the fine Steamboats on the Monongahela Slack Water between Brownsville and Pittsburgh. Time of arrival at both Cumberland and Baltimore 51 P. M. Fare between those points \$7, and 4 cents per mile for less distances. Fare through to Wheeling \$11 and time about 36 hours, to Pittsburgh \$10, and time about 32 hours. Through tickets from Philadelphia to Wheeling \$13, to Pittsburgh \$12. Extra train daily except Sundays from Baltimore to Frederick at 4 P. M., and from Frederick to Baltimore at 8 A. M.

WASHINGTON BRANCH.

WASHINGTON BRANCH.

Daily trains at 9 A. M. and 5 P. M. and 12 at night from Baltimore and at 6 A. M. and 51 P. M. from Washington, connecting daily with the lines North, South and West, at Baltimore, Washington and the Relay house. Fare \$1 60 through between Baltimore and Washington, in either direction, 4 cents per mile for intermediate distances. \$13y)

ME SUBSCRIBER IS PREPARED TO execute at the Trenton Iron Works, orders for Railroad Iron of any required pattern, and warranted equal in every respect in point of quality to the best American or imported Rails. Also on hand and made to order, Bar Iron, Braziers' and Wire Rods, etc., etc., PETER COOPER 17 Burling Slip.

J W. STOWELL SOLU

Passengers destined for Columbus and Cincinnati.

Touisville, Kv., St. Louis, Mo., Momphis, Tenn., Vicksburg, Natches, New Orleans, and all intermediate ports, will find a new, and the most expeditious and comfortable Route, by taking Steamboats at Buffalo, landing at Sandusky City, Ohio, distance.

230 miles.

Prom thence by Cars, over the Mansfield Railmoad which is new and just one of the control of the c From thence by Cars, over the Mansfield Railroad which is new and just opened [laid with heavy Iron,] to Mansfield, . 56 Thence by Stage via Columbus to Xenia over gravel and Macadamized Road, (the best in the state,) in new coaches, Tone.

through to Cincinnati 8 00 Passengers should not omit to pay their fare through from Sandusky City to Cincinnati and take receipts availing themselves of the benefit of a contract existing

between the said Railroad and Stage Co's, securing 121 miles travel by good Railroad and 88 miles by Stage, in crossing from Lake Erie to the Ohio river, in the space of 30 hours.

ver, in the space of 30 hours.

Passengers destined for St. Louis, or any point below on the Mississippi, will save by taking this route, from 4 to 6 days time and travel, and nearly half the expense, over the Chicago and Peoria route to the above places.

Fare by this route, although the cheapest, will in a short time be reduced, Railroad lengthened, and speed increased.

B. HIGGINSON, Sup't, etc.

B. HIGGINSON, Sup't, etc. M. & S. C. R. R. Co.

Sandusky City, Ohio.

TEW YORK & HARLEM RAILROAD CO.—Winter Arrangement.

On and after Monday, November 23, 1846, the cars will run as follows:

a.m., 3 45 p.m.

3 45 p.m. Leave City Hall for Hunt's Bridge, Bronx, Tuckahoe, Hart's Corners White Plains, Davis' Brook, Umonville and Pleasantville, [Pleasantville 4 miles from Sing Sing,] 7 45 and 10 45 a.m.; 1 15 p.m., 2 p.m. [freight train], and 3 45 p.m.

RETURNING Leave Pleasantville, at 8, 10, [freight train], and

Leave Pleasantville, at 8, 10, [freight train], and 11, a.m.; 1 30, and 4, p.m.

Leave White Plains, at 812, 10 30, [freight train] and 11 20 a.m.,; 1 50, and 4 20, p.m.

Leave Tackahoe, 8 35, 10 55, [freight train,] and 11 35, á.m.; 2 05, and 4 35, p.m.

Leave Williams' Bridge at 7 45, 8 50 and 11 50 a.

m.; 2 £0, 4, and 4 50 p.m.

Leave Morrislania 8 and 9 05 a.m.; 12 05, 2 35, 190 5.5 and 6 p.m.

FARE. Columbia.... Way points in proportion.

PITTSBURG, GETTYSBURG AND

HARRISBURG.

Through tickets to Pittsburg via stage to Har-

Trains leave Lexington for Frankfort daily, at 5 o'clock a.m., and 2 p.m. at 5 o'clock a.m., and 2 p.m.

Trains leave Frankfort for Lexington daily, at 8 o'clock a.m. and 2 p.m. Distance, 28 miles. Fare \$1.25.

On Sunday but one train, 5 o'clock a.m. from Lexington, and 2 o'clock p.m. from Frankfort.

The winter arrangement (after 15th September to 15th March) is 6 o'clock a.m. from Lexington, and ma. 9. from Frankfort, other hours as above.

SOUTH CAROLINA RAILROAD.

with trains on the Georgia, and Western and Atlantic Railroads—and by stage lines and steamers connects with the Montgomery and West Point, and the Tuscumbia Railroad in N. Alabama.

Fare through from Charleston to Montgomery daily

22 00

Leave 27th street for 42d street, Deaf and Dumb institute, Yorkville, Harlem Morrianna, and Williams' Bridge, at 7 o'clock a.m. From City Hall and Atiantic railroad; and to Montgomery, Ala., by for above named places, 2 p.m. [freight train,] 2 30 p.m. 5 p.m. to Morrisiania only.

Leave City Hall for Harlem, Morrisiania, Fordham and Williams' Bridge, at 7 45 a.m., and 10 45 a.m.; 1 15 p.m., 2 p.m. [freight train], 2 30 p.m. and 3 45 p.m.

Freight. Rates of Passage, \$8 00. Freight—
On weight goods generally... 50 cfs. per hundred.
On measurement goods 13 cfs. per cubic ft.
On brls. wet (except molasses

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Leave Morrisiania 8 and 9 05 a.m.; 12 05, 2 35, 4 20, 5 05 and 6 p.m.

Leave Yorkville, at 8 12 a.m.; 4 35 and 6 15 p.m.

SUNDAY ARRANGEMENTS.

Leave City Hall for Pleasantville and intermediate places, at 7 45 a.m.; 1 15 and 3 p.m.

Leave Pleasantville for City Hall, at 8 a.m.; 11, and 3 15 p.m.

Leave City Hall for Williams' Bridge and intermediate places, at 7 45 a.m.; 2 30 p.m.

Leave City Hall for Williams' Bridge and intermediate places, 10 46 a.m.; 2 30 p.m.

Leave Williams' Bridge for City Hall, at 8 50 first rope put upon Plane No. 3, Portage Railrord, has now run 1 seasons, and is still in good condition.

CENTRAL AND MACON AND WESTor Railroads, Ga.—These Roads with the
Western and Atlantic Railroad
Western and Atlantic Railroad
Of the State of Georgia, form a
ontinuous line from Savannah to Oothcaloga, Ga.,
This Road in connection with

CO's daily daylight lines of sages. of the State of Georgia, form a lous line from Savannah to Oothcaloga, Ga., niles, viz: of 371 miles, viz:

Flour, Rice, Bacon in Casks or boxes, Pork, Beef, Fish, Lard, Tallow, Beeswax, Mill Gearing, Pig Iron and Grind Stones Stones 0 50 On Measurement Goods—Box-es of Hats, Bonnets and Fur-0 20 pr. 100lbs. 35

Ploughs, (small,) and Wheel-barrows. 0 80 1 05
Salt, per Liverpool Sack.... 0 70 0 95
Passage—Savannah to Atlanta, \$10; Children, under 12 years of age, half price,
Savannah to Macon, \$7.
To Goods consigned to the subscriber will be forwarded free of Commissions.
To Freight may be paid at Savannah, Atlanta or Oothcalogs.

Baltimore.
Fare from Baltimore to Charleston......\$21 00
""Richmond....... 6 60
For Tickets, or further information, apply at the Snubern Ticket Office, adjoining the Washington Railroad Office, Pratt street, Baltimore, to 1v14

STOCTON & FALLS, Agents.

BAILROAD SCALES.—THE ATTEN-tion of Railroad Companies is particularly re-quested to Ellicotts' Scales, made for weighing load-ed cars in trains, or singly, they have been the ia-ventors, and the first to make platform scales in the United States; supposing that an experience of 20 years has given a knowledge and superior advan-tage in the business.

tage in the business.

The levers of our scales are made of wronght iron, all the bearers and fulcrums are made of the best cast steel, laid on blocks of granite, extending across the pit, the upper part of the scale only being made of wood. E. Ellicott has made the largest Railroad Scale in the world, its extreme length was one hundred and twenty feet, capable of weighing ten loaded cars at a single draft. It was put on the Mine Hill and Schuylkill Haven Railroad.

We are prepared to make scales of any size to weigh from five pounds to two hundred ions.

ELLICOTT & ABBOTT.

Factory, 9th street, near Coates, cor. Melon st.

Office, No. 3 North 5th street, 1925.

led

RE by

the The

Western and Atlantic Railroad and western and Atlantic Railroad now forms a continuous line, 388 miles in length, from Charleston to Oothcaloga on the Oostenaula River, in Cass Co.,

RATES OF FREIGHT.	Between Augusta and Oothcalogs	Between Charleston and Oothenlogs	111
	250 miles.	386 miles.	F
class. Boxes of Hats, Bonnets,			þ
and Furnature, per cu-			В
bic foot	40 16	80 25	ľ
class. Boxes and Bales of Dry	1	Section 2	L
Goods, Sadlery, Glass		327 0	E
Paints, Drugs and Con-			P

German or other emigrants, in lots of 20 or ore, will te carried over the above roads at 2 cents

road.

From Kingston, on this road, there is a tri-weekly line of stages, which leave on the arrival of the cars on Tuesday, Thursday and Saturday, for Warrenton, Huntsville, Decatur and Tuscumbia, Alabama, and Memphis, Tennessee.

On the same days, the stages leave Oothcaloga for Chattanooga, Jasper, Murireesborough, Knoxville and Nashville, Tennessee.

This is the most expeditious route from the east to any of these places.

any of these place

CHAS. F. M. GARNETT,

Chief Engine
Atlanta, Georgia, April 16th, 1846.

TO RAILROAD COMPANIES AND MANufacturers of railroad Machinery. The subscribers have for sale Am. and English bar iron, of all
sizes; English blister, cast, shear and spring steel;
Juniata rods; car axles, made of double refined iron,
sheet and boiler iron, cut to pattern; tiers for loco
motive engines, and other railroad carriage wheels,
made from common and double refined B. O. iron;
the latter a very superior article. The tires are
made by Messra, Baldwin & Whitney, locomotive
engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

When the exact diameter of the wheel is stated in
the order, a fit to those wheels is guaranteed, saving
to the purchaser the expense of turning them out in
side. THOMAS & EDMUND GEORGE,
a45

E. eor. 12th and Market sts., Philad., Pa.

connecting at Xinia and Spring-field with Messrs. Neil, Moore, Geld with Messrs. Neil, Moore, & Co's. daily daylight lines of stages going east and north, to Columbus, Zanesville, Wheeling, Cleveland, and Sandusky City. via Urbana, Bellefontaine, Kenton, and the Mad river and lake Eric railroad, or Columbus, Delaware, and the Mansheld and Sundusky City railroad—forming, by these connections, the cheapest and most expeditious route to Buffalo, Niagara Falls, Rochester, Albany, New York, and Boston.

On and after Thursday, August 13, 1846, until further notice, a Passenger train will run as filows:
Leave Cincinnati daily at 9 A. M., for Milford, Foster's Crossing, Deerfield, Morrow, Fort Ancient, Freeport, Waynesville, Spring Valley, Xenia, Old Town, Yellow Springs, and Springfield.

Returning, will leave Springfield at 4 hours 35 minutes A. M. A line of Hacks runs in connection with the Cars, between Deerfield and Lebanon.

Fare—From Cincinnati to Lebanon....\$1 00

Fars—From Cincinnati to Lebanon ... \$1 00

" " Kenia 1 50

" " Springfield ... 2 00

" " Columbus ... 4 00 " Sundusky city 8 00

The Passenger trains runs in connection with Strader & Gorman's line of Mail Packets to Louisville.

Tickets can be procured at the Broadway Hotel, Dennison House, or at the Depot of the Company, on East Front street, Further information and through tickets for the Stage lines, may be procured at P. Campbell, Agent on Front street, near Broadway.

The company will not be responsible for beggage beyond 50 dollars in value, unless the same is returned to the conductor or agent, and freight paid at of a passage for every \$500 in value over that amount.

amount.

The 1½ P. M. train from Cincinnati, and the 2
40 P. M. train from Xenia, will be discontinued on
and after Monday, the 10th instant.

A freight train will run daily.

W. H. CLEMENT, Sup't.

PHILADELPHIA, WILMINGTON A BALTIMORE RAILROAD.—1847.

Winter Arrangement.

Philadelphia for Baltimore...8 a.m. and 4 p.m. Baltimore for Philadelphia...9 a.m. and 8 p.m. Connecting in Baltimore with Mail Lines south and west, as per notice of the Baltimore and Ohio Railroad—and with Mail Lines north from Philadelphia, both morning and afternoon.

Sundays, the Morning Lines do not run in either direction.

Accommodation train from Wilmington to Philadelphia, leaves Wilmington at 8 a.m., and returns at 2 p.m.

J. R. TRIMBLE,
21f Engineer and General Superintendent.

AWRENCE'S ROSENDALE HYDRA-ulic Cement. This cement is warranted equal-to any manufactured in this country, and has been pronounced superior to Francis' "Roman." Its value tor Aqueducts, Locks, Bridges, Flooms and all Masonry exposed to dampness, is well known, as it sets immediately under water, and increases in coliding for years. solidity for years.

VALUABLE PROPERTY ON THE MILIPoint, so called, on the Mill Dam, in Roxbury
recenting on and east of Parker street, containing
68,497 square feet, with the following building:
thereon standing.
Main brick building, 120 feet long, by 46 ft wide
two stories high. A machine anop, 47x43 feet, with
large engine, face, screw, and other lathes, suitable
to do any kind of work.
Pattern shop, 35x32 feet, with lathes, work benches.
Work shop, 66x35 feet, on the same floor with the
pattern shop.

Work shop, 86x35 feet, on the same floor with the pattern shop.

Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts drums, pulleys, &c., large and small trip hammers, furnaces, forges, rolling mill, with large balance wheel and a large blowing apparatus for the foundry.

Foundry, at end of main brick building, 60x451 jeet two stories high, with a shed part 451x20 feet, containing a large air furnace, cupola, crane and corn oven.

corn oven.

Store house—a range of buildings for storage, etc., 200 feet long by 20 wide.

Locomotive shop, adjoining main building, fronting on Parker street, 54x25 feet.

Also—A lot of land on the canal, west side o Parker st., containing 6000 feet, with the following buildings thereon standing:

Boiler house 50 feet long by 30 feet wide, two sto-

Boiler house 50 feet long by 30 feet wide, two sto

Blacksmith shop, 49 feet long by 20 feet wide.
For terms, apply to HENRY ANDREWS, 48
State st., or to CURTIS, LEAVENS & CO., 106
State st., Boston, or to A. & G. RALSTON & Co., Panadelphia.

TO RAILROAD COMPANIES AND BUILD-ERS OF MARINE AND LOCOMOTIVE ENGINES AND BOILERS.

PASCAL IRON WORKS.

WELDED WROUGHT IRON TUBES

From 4 inches to \$\frac{1}{2}\$ in calibre and 2 to 12 feet long, capable of sustaining pressure from 600 to 2500 lbs.

per square inch, with Stop Cocks, T. L. and other fixtures to suit, fitting together, with screw joints, suitable for STEAM, WATER, GAS, and for LOCOMOTIVE and other STEAM BOILER First.



Manufactured and for sale by RIS, TASKER & MORRIS. c E. E. Corner of Third & Walnut Stree PHILADELPHIA. MORRIS, TA

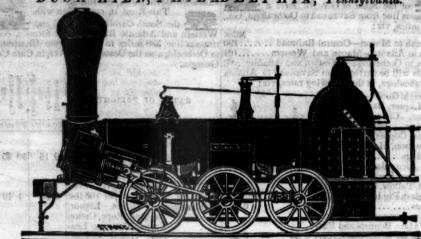
DATENT INDESTRUCTIBLE WATER Pipes. The subscribers continue to manufacture the above Pipes, of all the sizes and strength required for City or Country use, and would invite individuals or companies to examine its merits.—This pipe, unlike cast from and lead, imparts neither color, oxide or taste, being formed of strongly riveted sheet from, and evenly lined on the inside with hydraulic cement. While in the process of laying, it has a thick covering externally of the same—thus forming nature's own conduit of stone. The iron being thoroughly enclosed on both sides with cement, precludes the possibility of rust or decay, and renders the pipe truly indestructible. The prices are less than those of iron or lead. We also manufacture Basons and D. Traps, for Water Closets, on a new principle, which we wish the public to examine at 112 Fulton street, New York.

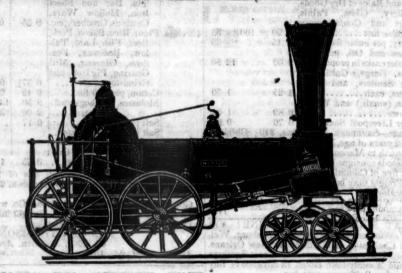
3. BALL & CO. J. BALL & CO.

TO LOCOMOTIVE AND MARINE ENgine Boiler Builders. Pascal Iron Works,
Philadelphia. Welded Wrought Iron Fines, suitable for Locomotives, Marine and other Steam Engine Boilers, from 2 to 5 inches in diameter. Also,
Pipes for Gas, Steam and other purposes; extra
strong Tube for Hydraulic Presses; Hollow Pistons for Pumps of Steam Engines, etc. Manufacture 1 and for sale by
MORRIS TASKER & MORRIS,
Warstouse S. E. corner 3d and Walnut Sts., Phila
delphia.

NORRIS' LOCOMOTIVE

BUSH HILL, PHILADELPHIA, Pennsylvania





MANUFACTURE their Patent 6Wheel Combined and 8 Wheel Locomotives of the following descriptions, viz.

Class	1,	15 inch	es Dia	meter of	Cylinder,	×	20	inches	Stroke.
- 66	2,	14	66	46	a (Automation)		24	· B	46
. 16	3,	144		"	II The last	X	20	"	the de later
**	4.	121	44	u		X	20	- 66	
114	5,	111	46	46 month		×	20	11	
	6,	101	- 4	At me	"	X	18	- 66	an an

With Wheels of any dimensions, with their Patent Arrangement for Variable Expansion. Castings of all kinds made to order: and they call attention to their Chilled Wheels, for the Trucks of Locomotives, Tenders and Cars.

NORRIS, BROTHERS.

THE NEWCASTLE MANUFACTURING Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron work and Brass and Iron castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of any pattern and size, with Axles fitted, also with wrought tires, Springs, Boxes and bolts for Cars; Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders

mina WI

The works being on an extensive scale, all orders will be executed with promptness and despatch. Communications addressed to Mr. William H. Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, a45

President of the Newcastle Manuf. Co.

RAILROAD IRON AND LOCOMOTIVE
Tyres imported to order and constantly on hand
by
A. & G. RALSTON
Mar. 2011
4 South Front St., Philadelphia.

KEARNEY FRIE BRICK. F. W. BRINLEY, Manufacturer, Perth Amboy, N. J. Guaranteed equal to any, either domestic or foreign. Any shape or size made to order. Terms, 4 mos. from delivery of brick on board. Refer to

mos. from delivery of brick on board. Refer to

James P. Allaire,
Peter Cooper,
Murdock, Leavirt & Co.
J. Triplett & Son, Richmond, Va.
J. R. Anderson, Tredegar Iron Works, Richmond, Va.
J. Patton, Jr.
Colwell & Co.
J. M. L. & W. H. Scovill, Waterbury, Con.
N. E. Screw Co.
Eagle Screw Co.
William Parker, Supt. Bost, and Worc. R. R.
New Jersey Malleable Iron Co., Newark N. J.
Gardiner, Harrison & Co. Newark, N. J.
25,000 to 30,000 made weekly.

The Directors of the Western Railroad Surplus in 11 months, ending Nov. Corporation, in submitting their Twelfth Annual Report, would remark, that in order to be prepared to make the dividends payable on or about the 1st day of January and July in each year, and for the purpose of having more During the eleven months the time to prepare the report for the Legislature, the same time with that of the Boston and Worcester Railroad Corporation, have or and without any serious accident to persons dered the accounts to be made up to Novem or property. ber 30th of each year, instead of December 31st as formerly. In consequence of this change, the report will embrace only the bu-

The balance of the transportation ac-	ba	10
count was reported at the close of the year ending December 31, 1845 to be	\$76,065	73
While at the same time it apppeared by the Treasurer's books	52,099	18

423,966 55

6.115 70

and comparing them with the general transportation acc't, they were found to vary, where vouchers, explaining the variation, could be furnished, to the amount of

And where no vouchers could be fur-nished, the difference having accrued in the early manag'm't of the road, to The bad debts which accrued mostly in the early operations of the road which had not been charged off until now, were.

The amount paid in 1846, in settlement of bills belonging to previous years,

Total amount chargeable to old reported halance Which will make the balance December 31, 1845, as corrected \$32,268 79

To which may be added the am'nt since credited to this account from shares of the capital stock as provided for by the act of the legislature of March 25, '45 114,736 68

From which may be deducted the divi-dend of 2 per cent. declared, Jan. 1846, and payable the following Merch...

Balance of transportation account at the commencement of the present year's business...

The income of the road for 11 months to \$87,005 47 November 30, 1846, has been-

\$878,417 87 Expenses for the same period have been as follows—for

Road repairs\$80,293 25 General expenses 24,213 77-\$412,679 80 \$465,738 09

The amount of earnings for December, 1846, have been \$76,000, which, added to the receipts for eleven months, will make the gross receipts of 1846, \$954,417 89, and an increase over the year 1845, of \$140,937 89.

3

From which deduct inter

30, 1846..... To which add surplus of previous \$17,006 52 87,005 47 years

During the eleven months the trains have been run with great regularity, considering and likewise to have the financial year end at the number of trains and the amount of business which has been done upon a single track.

\$104,011 99

or property.

The increase of business for the eleven months, as compared with the corresponding period in 1845, has been 204 per cent. on siness for eleven months, from January 1st freight, and 13.7 per cent. on passengers—to November 30th, 1846.

TRANSPORTATION DEPARTMENT. by the reduction of passenger fares.

It has been the aim of the Directors to keep the road and equipments in as good condition, in all its parts, to the close of the year, as it was at the commencement,

During the eleven months the road bed has been somewhat improved. Thirty five thousand new sleepers have been put down during the season, which is the full average number required.

In the amount of expenses for road repairs for the eleven months, \$15,600 has been charged and credited to a deterioration account, to be in reserve against the time when the old rails will have to give place for new ones

The engines are in about as good condition as they were at the commencement of the year; but a new one, which cost \$7,700, has been added to the stock and charged to the expenses of engine repairs, which is much \$43,796 94 more than the depreciation of others within the eleven months.

> Two long passenger cars and fifteen eight wheel freight cars, which cost \$15,250, have been added and charged to expenses for cars, which, it is believed, will more than make good any depreciation of the remainder with in the eleven months. In fact, it might be safely said, that most of the freight cars are 60,000 00 in as good condition as at the commencemen of the year; but, as old cars are more likely to get out of order than new ones, and conse quently the time consumed in making repairs upon them, deprives the road of their use, i should be made up by additional numbers. The same remark is applicable to engines although they will never wear out, inasmuch as the old parts are constantly being changed for new, yet while these repairs are going on the road is deprived of their use, which should be made up by an increase of numbers, and charged to expenses, so that the road wil have the constant use of as many in perfect order, as the number charged to capita stock.

A new bridge for a double track, which cost \$5,835 70, has been built across the Westfield river, at Chester village, about 300 feet long, of the best materials, and of the most approved construction, which has been

charged to the expenses for road repairs, and more than makes good any deterioration of the remainder of the bridges for the year.

The following tables will give a comparative statement of the business of the road since the commencement.

The number of through and way passengers, and the number of barrels of flour trans-ported, during the last five years. The numher of miles run during eleven months of 1846. Also a schedule of engines and cars belonging to the corporation.

Same and		3	Comparative	rater	30	Statement of the Business of the	of the	Busin	ess of the	Road	d.				F
140	Passen	-	Merch	andz		Mails, etc.	-	Total.	Expen	mses.	Bal	Balance of	~	Miles	Run
1839 3	m. \$13.479	1	25	36 2	-	SEC. 12.	\$17	609	15 \$14.3	80 64	83	866	19		519
1840	70.82		346	159 7	900		2 112		65	7 17	50	275	67	94,4	04
1841	113.841	1 85	64	1 19	7		00 182	308	99 132.5	501 4	5 49	807	2	160,1	9
1849*	266.44		226	374 6			4 512	688	28 266 6	619 30	3 246	890	98	397,2	95
1843	275 139	19 6		969	6	23.046 6	8 573 882	882					45	441,6	1809
1814	358,69		371	131 8	7	- 22	88 753	752		102	20 439		23	499,9	89
1845	366,753		420	717	2			480		621 29			8	530,2	10
184611	m. 389,86	532	469	365	L	-	878 878	417		456r		HE.	60	573,9	99
10 miles	17.00	14		First ,	real	year of opening through to	ing th	rough	Y	bany.	17.7	.75		97	die
BYSIA P	7 7 57		N	Number	6	Way and	d Through	" You	Passenge	75.	200	S. C.		12	17
	Through 1	passen	ger.	10		Way p	assenge	FR.	654 654 729	To	13	Total	-		
100	Ist Class.	2d C	Jiass.	Total.	J.	1st Class	1. 2d C	198	Total.	lat	Plane.	2d Class.	1	Grand	Tot
849	15,890	25	1089	18.5704	201	148,500	183	998	171,866	164	390	26,0464	464	190	436
843	19,967	6.6	808	26,505	96	140,425	88	1454	174.370	160	412	40,5	534	200	965
844	17,0164	7.5	114	24.3	10.	140,868	55	1890	195,997	157	388	62,3	12	220,	257
845	13,4014	5,	160	114	16.01	1472	35	7174	204,440	158,	1341	65,5	190	223	633
846 11 m.	21,033	8	166	8'67	835	165,196	30,0	6364	235,831	186	68	19,4	135	965,	99
13 3	BOY 70	3	80	8 9 S'-K	103	720 710	0700	90%	000 19K1	807	OAGL	0220	916	1 200	986
28 Mg 200	20010		200	110,0		100,000		3	200,300		=	aleryo	1	3	3

e	Number of Barrels of Flour transported from and Troy.	Albany
ıt	To Boston, To other Stations, 1842	179,110 244,239 297,403 328 163
	Number of Tons transported in Eleven months Through from Boston to Albany, westw'd All other tonnage	of 1846. 8,358 40,251
	Total going west	48,609 36,403 81,382
1,	Total going east	117,785
d	Total number of tons moved	166,394 ,748,923 100,950
h	† In December, 1846, the number of barrels transported to Boston, was	23,296

Total number of barrels in December

Making the whole number of barrels transported in 1846.....

700	·AM
Number of Miles run by Loca	molives in Eleven
Months of 184	6. 12001 0101 1101
For passenger trains	
For gravel trains, etc	45,328
	573,956
Schedule of Engines and Cars and Railroad Corporation, Nov	ember 30, 1846.
12 10 ton passenger, Locks &	Built by Canals Co., Lowell.
5 15 ton passenger, Hinkley of 15 ton passenger, W. Norri	& Co., Philada.
7 22 ton freight R. Winar	ns, Baltimore. Canals Co., Lowell.
6 90 ton freight Hinkley &	L Drury, Boston.
1 16 ton freight Hinkley of W. Norri	& Drury, Boston.
5 20 ton freight Baldwin	& Whitney, "
	is, Baltimore.
43 Care	18 公司 19 19 19 19 19 19 19 19 19 19 19 19 19
19 8 wheeled passenger let c	lass.
7 4 wheeled passenger, lst c 4 8 wheeled passenger, 2d cl 4 8 wheeled passenger, bagg	1ass.
4 8 wheeled passenger, bagg	rage.
4 wheeled passenger, bagg 4 8 wheeled passenger, crate	age.
¥ 4 wheeled passsenger, crat	e.
448 8 wheeled covered freight.	3 2 4 6 7
65 8 wheeled platform. 100 4 wheeled covered.	sar ar at at a late -
70 gravel and dirt.	
26 hand.	ENTRE LE
Since the last annual re	2 0 E 2 S
has been increased by crea	ting 4000 shares,
which have been disposed of	agreeably to the
Act of March 25, 1845.	for constitution
The total means provided and equipment of road have	
34,000 shares at \$100 each	\$3,400,000 00
£135,000 sterl. bonds, payable with est at 5 pr ct. April 1,	th inter-
337,500 Oct. 1, 1	868,
90,000 " Oct. 1, 1 180,000 " April 1,	869. 1870.
157,400 April 1,	1871.
£899,900 average due July 5, 18	69\$3,999,555 56
Albany city bonds payable with at 6, per ct. July 1, 1866. \$250	
" July 1, 1870. 300	,000
July 1, 1871. 200	,000—\$1,000,000 00
	\$8,399,555 56
Am't paid to Albanysink-	网络高州公司
Am't paid income for mo-	PART - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
ney previously paid in-	NET THE WAY TO SEE
per act of March 25, 45 114.7	
Am't accrued to the sink-	hartain from Holden
but not due until Janu-	Management to the 10
Total am't paid for con-	33 34
atraction and equipment	99 49 99 440 950 44
of road (see table A) 8,185,7	00 42-38,446,358 44

It will be perceived by reference to the annexed table marked A, that \$296,079 11 has been expended for construction and equipment of the Western and Albany and West Stockbridge railroads during the eleven months ending November 30, 1846, and that most of it has been expended for engines, cars, land, wants of the corporation. and additional track.

\$46,802 88

Excess of funds expended over am't

called to the importance of providing more capital stock can be made,

efficient means for doing the business of the road; at which time it was decided to order six engines, in addition to the four then or-dered, and 100 long eight wheeled freight cars, in addition to 90 previously contracted for, all of which have since been put upon the road, and most of the cost charged to construction.

have gam busi-	. 30, 1846.	Total cost of both Roads.	4,207,412 05 1,347,760 11 425,505 93 481,029 15 418,789 14 56,066 49 370,548 01 873,488 54	8,185,788 42
ao h Smpi aska	to November	Total Amount paid. Nestern A. & W. E.	889,635 96 293,786 65 175,173 92 204,022 99	1,776,197 45
gent ,	e Railroads	Total Amo Western Railroad.	3,154,039 86 163,736 23 1,054,033 46 250,332 01 250,332 01 55,066 49 370,548 01 665,850 61	5,409,590 97
leaoití de an lead b	tockbridge	id in 1846. A. & W. S. R. R.	1,161 66 524 83 4,563 12 546 07	6,795 68
LE A.	d West S	Amount paid in 1846, Western A. & W. Railroad. S. R. R.	7,545 50 22,347 38 18,153 87 42,551 19 71,507 42 4,648 47	289,283 43
TABLE A.	Albany an	A. & W. S. Railroad.	293,201 82 170,610 80 203,476 92 213,637 93	1,769,401 77
hagild helt helt had had	Western and	Amount paid to Dec. 31 1845. Western A. & W. S. Railroad. Railroad.	3,146,494 36 1183,736 23 1,031,696 08 223,178 14 224,454 97 347,770 72 50,418 02 2,48,018 41 665,850 61	6,120,307 54 1,769,401 77 (289,283 43 6,725,68 6,409,590 97 1,776,197 45
design said in the	Table showing the Cost of the Western and Albany and West Stockbridge Railroads to November 30, 1846.	Heads of Expenditures.	Graduation and masonry Bridging Superstructure, including iron Sation buildings and fixures Locomotives. Passenger and baggage cars Merchandize cars. Engineering and other expenses.	ed of second or

It was also deemed essential that the turnout tracks should be lengthened, where trains are liable to pass each other; and that a third track should be put down in front of the depots, for cars that may be stopping at the stations—which improvements have mostly been made, including about two miles of track from Pittsfield to the junction with the North Adams railroad.

The attention of the Directors was early 1845, a further issue of 1500 shares of the

	Which will amount to Of this amount, there has already been expended	
	Of this amount, there has	i welled denning the
ď	already been expended	the Western Rails
ŧ	for construction and eq'p- ment of the road\$	16 809 89 SON BILLION
1	And there will be required	lo emblocaid on Pa-
1	to pay into the sinking	0,000 00
-	QUARTON PROTECTION SAMED A	30,004 00

Which will leave for construction and provision to supply the means to be expended for construction the coming season, which de-ficiency, and the requirements of the road hereafter, can only be provided for by an increase of the capital stock.

The Pittsfield and North Adams railroad

was considered as opened for public use on the 1st day of December, 1846, at which time the Western railroad company commenced operating it, under a lease of thirty years, the particulars of which have been previously re-

	ported.	in Malazaran
	SINKING FUNDS.	T ASSET SATURA
	The Massachusetts fund was, as per last report, on the 1st of Jan. 1846. Interest on dividends since received Profit on sales of Providence railroad	\$290,610 64 17,426 51
	stock	1,234 25
200	Dividends and interest accrued and not due Eleven-twelfths of \$40,000, accrued to	B,775 50
	Nov. 30, and not due till Jan. 1, '47	36,666 67
	Total amount of Massachusetts fund. The Albany city fund was, as per last report on 1st Jan. '46 169,878 00 Interest accured in 11 m's.	\$349,713 54
	to Nov. 30, 1846 10,900 50 Eleven-twelfths of \$10,000, accrued to Nov. 30, 1846, but not due till January	o pri nedelir Vine estrul See bad deles See Vine to see
		189,945 17
100	Total value of both funds Nov. 30, '46	9589,658 71

if put at compound interest 1846, will produce \$319,5 the sterling bonds avera July 5, 1869, being for ematurity of scrip	est Nov. 30, 964 44 when ge due, say xchange on
Net value of the two f'ds I The value of the Massach ing fund will be, at the ti averages due, provided a ther should be added to i compound interest at the per cent. per annum, say 30. 1846. to July 5. 1866.	nusetts sink- me the scrip nothing fur- t, reckoning to rate of six of from Nov.

1,299,156 83

985,398 84

Total value of both funds when the principal falls due, provided nothing further be paid into the Massachusetts fund.

The value of the Massachusetts fund will be, provided the law requiring 40,000 per annum to be added to it, reckoning compound interest at six per cent, per annum, when the princer cent, per annum, when the principal six per cent, per annum when the principal six per cent, per annum when the principal six per cent, per six 2,284,555 67 per cent. per annum, when the prin-cipal falls due 2,783,286 22 dd value of Albany fund, as stated

Total value of both funds when average due 4,092,443 05

* Six engines and four passenger cars are now building, which will cost \$57,500.

Foreign Iron Trade.--Items.
We clip from our exchanges, and other journals, received from Europe by the last arrival, the following items, in reference to the fron business abroad:

Iron Trade and Railways of Belgium. A letter from Brussels, states that the iron trade of Belgium is receiving, from the extension of railways in that kingdom, a perceptible and unprecedented impulse. At the monthly meeting of the Ironmasters, held on the most celebrated of other countries. works, are refused, and in some instances, prices remain the same, and the rolling mills

are fully occupied; altogether, the prospects of the trade are highly satisfactory.

In the Moniteur Official, which publishes a monthly list of the value of the shares in the various companies, there are some striking instances of the rapidly increasing value of all property connected with the iron trade of this country. Among others, the iron works of Sclessin, near Liege, the shares of which, on the 1st of January, were at 995f., are quoted on the 1st day of November last at 1200f., or 20 per ct. premium. The shares of l'Esperance were at 845 in January, they are quoted on the 1st of November, at 1425; but the most striking instance is the shares of Monceau iron works, situated at the northern terminus of the Sambre and Meuse railway. In January, the 1000f. shares were at 2000, and on the 1st of November 2300, with buyers. The 1000f. shares of the Providence Works, which are of more recent date, are quoted at 1500f. This company has just finished erecting a very large rolling mill on the borders of France, to avoid the present high duties on rolled iron.

about 45,000 tons of rails, out of 75,000 tons, for which they advertised. The contracts were taken by two eminent Welsh houses at a price equal to £9 12s, to £9 15s, at the works in Wales. It is reported the directors of the company were willing to have closed for the remaining 30,000 tons at the above rates. In Staffordshire and Welsh pig iron a very good business has been done during the week, at full prices; and owing to the large orders now in the market for railway chairs there is no doubt an extensive demand will take place ere long both for Welsh and Staffordshire pigs. Scotch pig iron has been in for the revision of the statutes and contracts are intimately comment of mobles, proprietors, merchants and artists, most writers are intimately commented with the writers are intimately commented with the railway alluded to:

"The Northern Railway company, after having vainly attempted to procure rails in find dustrial association, in the same degree as they have been to associate themselves for the purposes of benevolence whenever called to do so. In this assembly were initiated the measures for the direction of the society; a president was elected, the able and scientifically instructed duke, Don Mario Massimo; ton, which was what it paid last year. It take place ere long both for Welsh and Staffordshire pigs. Scotch pig iron has been in for the revision of the statutes and contracts land at from 240 to 250f. a ton; that the

From the preceding statements it will appear that the affairs of the corporation are in a flourishing condition; and it affords the Directors much satisfaction to say, that the prospects of the road for the future are very encouraging. All of which is respectfully submitted.

Addison Gilmore, Edmund Dwight, John Howard, Robert Campbell, Stephen Fair-banks Jesieh Stieknay Jonathan Chapman. banks, Josiah Stickney, Jonathan Chapman, Abraham H. Howland, James Russell,
Boston, Jan. 11, 1847.

Roman Mining and Iron Foundry Society. -At the present time, when the projected railways in the States of the Church are exciting general attention, as proofs of our internal resources for their formation, may be numbered the two establishments for the manufacture of iron, which, within a very short period, have risen to be unrivalled by any in Italy itself, and to compete in excellence with the 8th inst., it was decided not to raise the speak of the establishments of Tivoli and price of pig iron; but all large orders at the Terni; the one in the neighborhood of Rome present rate of £5 8d. per ton, taken at the and with the inexhaustible advantages derived from the waters of the Anio, has already an advance has been freely given, there being two great machines, besides many other mino stock to full back upon. For rails, £12 nor ones, for the fabrication of tools for the labors of the field, and instruments of every sort for weaving, of qualities so perfect and so much sought for as to supply not only the foundry supplied also with the most spacious laborers; machinery the most excellent, the said to be contemplated. springs and wheels of iron; eight large forges, tion of the rails, the latten, etc., for railways. Now these two establishments united togethfabricate iron, cast, beaten and wrought cylintons of rails. drically, to the amount of 12,000,000 pounds weight per annum. The proprietors of both foundries, knowing from experience how much their interests were to be served by the increase of capital, have determined on forming an anonymous society, which vesting by means of actions the sum of 600,000 scudi, might make itself responsible for the two establishments, amplify the sphere of opera tions and carry on the working of the mines The English Iron market has been rather this country possesses. Accordingly was animated during the week, owing to the Gt. held, on the 15th November, the first general Northern railway company having closed for assembly of the society, at which about 200 about 45,000 tons of rails, out of 75,000 tons, assisted; it was in truth a convention of no

West of Scotland Iron Company.—We lately visited the West of Scotland Company's Malienble Iron Works, at Motherwell, says the Glasgow National Advertiser, which have been only recently brought into operation. We believe that this establishment is not only the most extensive, but perhaps the best constructed mall-able iron work in the kingdom. We found only part of the works in operation: but from the state of forwardin operation; but from the state of forwardness of the remaining portion, the whole will probably be at full work in a few months hence; when they will turn out 700 tons of rails weekly. The extent of the works may be conceived, when it is stated that they will manufacture 50,000 tons of pig iron, consume 100,000 tons of coals annually, and employ 1200 to 1500 men.

Elginton Iron Works, Ayreshire. - One of so much sought for as to supply not only the the three new furnaces, recently constructed entire states of Rome, but also those external. here, was put into full blast a short time The other establishment, that of Terni, resince—George Johnstone, Esq., of Redburn, ceiving aliment from the river Velino, is a presiding at its celebration. The others will foundry supplied also with the most spacious soon follow. The building of a 4th furnace premises, magazines and habitations for the has already been commenced, and others are

Contracts for Rails.-Mr. Levick, of the four great mallets and two great pumps, with eminent house of Crutwell, Allies & Co., of a cylinder of enormous dimensions: as yet the only one in Italy adapted for the fubrica- and concluded contracts with the Gt Southern and Western, the Dublin and Belfast Junction, and the Dundalk and Enniskillen

> Iron Trade.—At a meeting of the proprietors of the Clay Cross Collieries, held at Derby a few days since, it was determined to open iron work, in conjunction with that colliery without delay. The circumstance of beds of iron, lime and coal, lying contiguous to each other at clay cross, will, it is supposed, render the undertaking very profitable.

The London Mining Journal of December 15th, contains the following:

"I invite your particular attention to the following statement, the facts of which are borrowed from Le Siecle, some of whose

price of conveyance would be from 40 to 50f. at on; and that a duty of from 50 to 60f. a ton would, under the peculiar circumstances, the accepted, instead of the modest 206f. a ton inscribed in the tariff. Such an arrangement would have yielded 12,500,000 to the national exchange, and would have done no harm to the iron manufactured goods, and the iron trade, the same extent of land to the local taxes, the sustained milway consumption. On the steep will be sustained milway consumption. On the steep will be sustained milway consumption. the ironmasters; for, be it repeated, the company had 'vainly attempted to procure in France' the rails it demanded permission to largest makers in South Staffordshire to state, introduce. Will you suppose, naturally that such an advance will not take place, but enough, that the Minister of Commerce hestiated not one moment to accord the required permission? How, indeed, you will ask, should he, when he has every day under his pared to take an order for 30,000 tons at the present prices; and if the opinions and actual masters can produce, and what they have unposition of the merchants and manufacturers destrained. dertaken to supply-returns which prove most be considered in the question, there would clearly that the greatest miracle on earth seem to be good reasons for the adoption of could not enable them to meet their engage this course. A commercial letter now before ments. But, ah I you don't know this good me, from a large American house, says—'I minister of commerce. Instead of ordering send you an order for bar iron, at the quota-the custom house to be thrown open to the tions of the 19th of October, (the first after English rails at 50 or 60f. a ton, the worthy quarter day;) but if the price advances as man sent to the committee, which the iron high as 10s. per ton above this quotation, masters have elected to preside over them. to please omit the present order.' Added to ask what they had to say to the demand. The iron masters, of course, with more than their chants is, that if there is no advance, there brutal selfishness, unbesitatingly declared that will be a greatly increased demand for iron the offer must not be accepted. It will seem and made goods; but that, if there is an adincredible to you, that men who cannot do a vance, the demand will inevitably be curtail-thing, are determined to prevent others doing it; but, incredible though it be, such is really tion at the present moment to a large body of the truth of these iron monopolists of France.

They, however, by way, probably, of gilding over their s and alous refusal, proposed to untake, by clubbing among themselves, to supleading railways for the second half year of ply the rails at 380f. the ton! But, it may be asked, could the company get the rails even at that exorbitant price? Most certain

American Orders-The Iron and Birming-am Trade-A correspondent, writing from Birmingham, on Thursday evening, says— "I am glad to be able to state, that the commercial letters received here on Tuesday, from America by the Britannia, are of the most favorable description, and hold out prosprices in this district for some time to come. At all the houses, brisk orders have been received, with an assurance in some of the advices, that a very considerable increase in the cent. on dividend. The Manchester and Leeds, demand may be fully expected in this and 84 miles; capital, £3,750,000; gross receipts,

leading railways for the second half year of even at that exorbitant price? Most certainly they cannot, unless as the Siecle says, they import fonte, to fabricate them from Belgium or England; and, even if they import fonte, not the slightest reliance could be placed upon their promises or their treaties."

suits, in round numbers:—London and North one in this part of the country, and well worth western, 350 miles, with a capital or cost of a visit from strangers. The stock is scrap £13,000,000; gross receipts, above £1,000, and pig iron. The first is collected in the vicinity; the pig is obtained at the greater on their promises or their treaties."

From six to ten tons of coals a day are cent on passengers, besides property tax, in used a fact which will help to the country, and well worth we strangers. The stock is scrap £13,000,000; gross receipts, above £1,000, and pig iron. The first is collected in the greater markets. The whole is American.

E24,582 for the government duty of five per cent on passengers, besides property tax, in used a fact which will help the country, and well worth we strangers. cent. on passengers, besides property tax, in-come, stamps, etc., being equal to about nine per cent on what the shareholders divided for rates and duty. Great Western, 222 miles; capital £8,000,000; gross receipts, £496,000; divided to shareholders, £301,807; paid £15,030 local rates, and £14,748 govern for government tax, besides, etc., or eight per work is so great, that it is confidently asserted the manufacturers of these articles have now before them full twelve months' work. The most gratifying fact, however, connected with this demand is, that it is the result of low stocks in the United States, and not of specu lation, which would render the internal doubtion, which would render the internal doubtion. There is, therefore, but one thing which can at all interfere with these pleasing prospects—and that is an attempt to raise the

Cold Spring Iron Works.

On the Western bank of the river Thames, a mile and a quarter, perhaps, below Nor-wich Landing, beside the New London turnpike, stood, some time ago, a brewery and distillery. The ground is now redeemed for more beneficent uses, furnishing the site of the Cold Spring Iton Works. The business is carried on by a joint stock corporation, of which Mr. John Huntington is president.—
The building is of the most simple character, no other being requisite, of plain boards, one story high, like a blacksmith's shop, with sky lights, but without a floor. The sight of it reminded us of the Millerite tobernacle in Boston; and a glance at the works within by no means served to drive away the thoughts of the end of the world which the exterior had awakened. The establishment was first commenced in September, 1845. The prepara-tions having been completed in April, 1846, the work was begun; but almost immediately afterwards was brought to a very sudden termination by the occurrence of a fire which consumed the building. In the month of June next following, the shop having been rebuilt, the work was resumed. The building is 117 feet by 85.

The business is the rolling of iron into 1846, give the following comparisons and re-sults, in round numbers:—London and North one in this part of the country, and well worth

> used; a fact which will help to give some just idea of the magnitude of the operations. The coal was formerly brought from Pennsylvania; but at present the Picton and Sidney coal is employed to feed the fires.

Steam power is the kind used; the engine being of a hundred horse power. The mainost favorable description, and hold out prosment tax, etc., equal to about ten per cent on
pects of such a demand for goods, as cannot
the shareholders' profit. The Midland raila year, representing a value of \$100,000 or
fail to secure employment at remunerative
prices in this district for some time to come.

At all the houses, brisk orders have been re

£170,000; paid £7130 for rates, and £6645

The mill is kept running on an average only five days in the week, by which time the furnace commonly needs repairs, and is suffered to cool for the purpose. From the steam prothe month of January. At some establishments the orders for chains and heavy iron work is so great, that it is confidently asserted £414 local rates, and £3464 duty, besides, Hinckley & Drury of Boston. It is kept

ndents will oblige us by sending in their tions by Tuesday morning at latest.

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AMERICAN RAILROAD JOURNAL.

Published by D. K. MINOR, 106 Chestnut St., Philadelphia

Saturday, January 30, 1847.

INDEX FOR 1846.

With the present number of the Journal, our readers will receive the Index for last years' volume.

Columbus and Eric Railroad.

A friend, dating at Newark, Ohio, writes us a follows: "From the interest you exhibit on the sub-ratio, in consequence of the continued demand for ject of railroads in Ohio, you will doubtless be grati- rails, which has induced many of the iron masters fied to learn, that the Board of Directors of the Co- to diminish or extinguish their make of bars, and lumbus and Erie railroad have resolved to place the to turn out a greater quantity of rails; the demand road under contract from Mansfield to Newark as for other descriptions of iron is fair, but not excess soon as the engineer can prepare and make the pro-sive, hence the improvement on these descriptions per estimates. If the 'Central Railroad' from Phi- has not kept pace with that on pig iron and mernication' with Philadelphia, via Pittsburg, by rail- and Ireland, and the East and West India and Caroad, within five years. A road from Pittsburg, (if nadian dependencies, full employment for the Engthat city keeps her interest in view,) towards Colum- lish ironmasters for some time to come, and should bus will form a junction with the Columbus and no other counteracting causes intervene, we believe lake Erie road at this place unquestionably. Zanes- that the prices for 1847 will be above the trade aveville is already moving in the matter, and will doubt- rage. The following are the present quotations deless go forward to Wheeling, unless Pittsburg anti-livered in Liverpool :- Scotch pig, £4 5s. to £4 7i. cinates her."

ing in the last number of the Ohio State Journal, I C charcoal tin plates, 32s, per box. touching upon the same subject. The editor says :-"The following communication is from a source which entitles it to the highest consideration of our citizens. No man in Ohio commands more fully the confidence and respect of the people of the state, than the writer. We commend his concluding suggestion, to the early and attentive consideration of all concerned :"-

inst., surveys had been extended so much as to lead to a selection of the route to Columbus, by way of Newark. The subscription and resources of the company were such as warranted the Directors to order the line to be prepared for letting, and in a few weeks, as soon as the necessary estimates can be made, the whole distance, from Mansfield to Newmade, the whole distance, from Mansfield to New-ark, will be placed under contract. Encouragement has likewise been given, that the road will be made at the same time from Newark to Granville. The Directors find abundant reason to justify the belief, that the whole road from Granville to Mansfield will be finished at an early period.

Thus a railroad will shortly be in operation from

the lake to a point within 26 miles of the state house; and if a subscription of \$100,000 can be raised in Franklin county, a locomotive, fed by lake waters, may whistle in the streets of Columbus within two

Mansfield, January 22, 1847.

Iron Trade in England.

By the arrival of the last steamer from Europe, he most cheering accounts are received in relation to the iron business. A very great improvement has taken place in prices, during the past month, and it will be seen by our quotations to day, that this advance promises permanency, at least for the present. Wilmer & Smith inform us that the new year has commenced with a decided improvement in the value of iron. Pig iron may be considered as 58s. per ton, and merchant bar iron 10s. per ton higher than the prices in the beginning of December last. This improvement seems likely to be of some continuance, and there seems little doubt that, before the end of the present month, prices will be still iron on the 1st January, 1817, is about 100,000 tons less than the quantity held on the 1st of January. 1846, and that the make at present is incapable of any considerable extension, as there is a deficiency of colliers and skilled workmen.

The make of bar iron is reduced in a still greater In connection with the above, we find the follow- 101 15s, to 111; hoop iron, 111 10s; sheet, 121;

The London Mining Journal of January 2d, in its article upon the iron trade, says "that great activity has prevailed during the past two or three weeks, in the iron trade, in South Staffordshire: many large contracts have been taken, and others as extensive are now under consideration; much is said of the unusual scarcity of ironstone, and very high prices The Columbus and Lake Eric Railroad Company.

This charter, passed in Marca, 1845, authorized the construction of a railroad from Columbus to some point upon the Mansfield railroad. An erganization that the Mansfield railroad was finished, a survey was commenced, and so far matured, that at the December meeting of the Directors, the line from Mansfield to violate the rates agreed upon at the previous meet. are realized-while coals are a still more difficult rederic was adopted as a part of the route.

At a Director's meeting at Mansfield on the 19th ing, and who have supplied rails at £9 18s. 6d., and chairs at £6 18s. 6d. per ton. Some speculation is entertained as to the decision which will be come to at the ensuing quarterly meeting; but it is generally believed that notwithstanding the demand for rail way iron, which would justify an advance, the masters will not make any addition to present prices .-Such a proceeding would probably cause strikes among the workmen and miners, unless increased wages were agreed to; and many of the small manufacturers, who have many contracts on hand, and have for months realized but seriously scanty profits, would most probably be ruined. The advance on coals at the pit's mouth is 1s. per ton. Upon the whole, there appears every probability that the price of iron for the next three months will remain firm; and that, notwithstanding the demand is considera-

bly above the supply, every effort will be made execute present railway orders at existing rates

Our own private letters, received by this arrival, from an intelligent American, now in England, who has for many years been connected with the railroad interest in this country-and in whose judgment we place reliance-confirm this intelligence. He informs us that he has conversed with a practical man in London, well acquainted with the subject, who assured him but a day or two prior to the steamer's departure, that he would not be willing to contract for the delivery of railroad iron hereafter at £125s.

The demand for iron is very brisk, and large orders have been filled at our quotations. In France, a similar activity prevails, and all the indication higher. It has been ascertained that the stock of pig show that a most flourishing business, at advanced prices, must follow in this business, during the preent year. In relation to this subject, we make several extracts from English journals, to-day-to which the reader is referred.

Railrodiana.

A public meeting was held at Mobile, Alabama, on the 12th inst., to consider a proposition for connecting that city with the waters of the Mississippi and Ohio by means of a railroad to some point on the Mississippi, below the mouth of the Ohio. Resolutions were passed, declaring it to be the duty and interest of the citizens of Mobile, to join in the strug-gle for internal improvements in which the older Iadelphia to Pittsburg is carried forward, as is anti-chant bars. Without reference to a foreign demand cipated, we confidently expect to be 'put in commu-for iron, we see in the requirements of Great Britain storehouses the products and wealth of the great west; and expressing an opinion that the contemplated railroad is both desirable and practicable. A committee of fifty was appointed to adopt all necessary means to promote the enterprize.

The principal objection, says the Philadelphia U. S. Gazette, to making New Orleans a terminus for a line of trans-atlantic steamers, has been the bar at 6d.; merchant bar, £9 10s. to £9 15s.; best rolled, the mouth of the Mississippi. But for this it would long ago have had a line of steamers plying between there and England. A fine harbor has been discovered on the Gulf, and from this place, known as Cat Island, it is proposed to run a railroad to New Orleans, a distance of 60 miles, which will enable passengers to reach the city quicker and at a cheaper rate, the distance from the bar being 110 miles,-The railroad is now being constructed, and there is every probability that Cat Island will be made a terminus for the British West India steamships.

> The people in the northern section of New York re taking active measures to fill up the subscription to the stock of the Rome and Cape Vincent road,-Thus far, \$425,000 have been subscribed. The charter provides subscription for the road to be made by separate sections—the first extending from Cape Vincent, on the river St. Lawrence, to Watertown; the second from Watertown to Salmon river; the third from Salmon river to Rome. As soon as the stock is taken for the first and second sections (750,-100) the company may be organized by the choice of a board of directors, authorized to go on with the works.

The Boston Traveller states that the following reolutions were passed at the annual meeting of the Fitchburg Railroad Corporation, at the Tremont Temple, on Monday:

Whereas, The interests of this corporation will be greatly promoted by a connection with the Vermont Central railroad; and whereas, agreeably to an arrangement between the two corporations, the said Vermont Central railroad company have acted in good faith, by commencing the construction of their road at Windsor, so as to insure the said junction, therefore

therefore
Resolved. That it is incumbent on the corpora

tion, both as a company and as individuals, to act in good faith in carrying out said arrangement.

Resolved, further, that the Sullivan railroad, designed to connect the Cheshire with the Vermont Central road, has our confidence, and is worthy of the aid of the community, and particularly of the stockholders of this corporation, and that we will do, as individuals, what we can, by subscription to its stock, to insure an object so necessary to our interest.

The inhabitants of Rock Island have held a meeting, at which it was agreed to apply for a charter to build a railroad from Rock Island to the southern terminus of the Illinois and Michigan canal. The distance is 90 miles, and the face of the country, over which it is proposed to carry the road, is highly favorable.

The Bangor Democrat makes the following remarks on the subject of the Maine railroads; "The railroad fever in the central part of the state and farther west has not abated. The question whether there is to be one or two roads remains undecided. Both routes are the shortest and the best according to the most respectable authority, and both most deserve the favor of the public. The people in this part of the state do not of course care whether the railroad east from Portland runs on the lower or upper route to the right point on the Kennebec for striking across to Penobscot. But it would be a pity to have two parallel roads near each other, as neither could then be profitable, and it may be that if the friends of each do not unite both may be defeated for the present. We therefore hope there will be a union of interests, as the best thing for all concerned. It strikes us at present, that the people of the eastern part of the state will not consult their true interest by being partizans of the 'broad gauge,' as the narrow will answer all our purposes, and is, therefore, the best for us as it will be the least expensive. The broad gauge road may be the best for very heavy transportation, but the narrow will be all that is required between the two rivers, and uniformity is

The Boston Courier-naturally "very cool" upon all topics of public interest, alluding to the subject of the railroads "down east," says-"The lower Kennebec country is in a blaze of excitement with regard to the railroad from Augusta to Boston, with a branch to Bath. Mass meetings have been held in most of the towns upon the route, which have been swelled by large delegations from other towns, interested in the project, and a degree of enthusiasm has been manifested, as detailed in the Kennebec journals, which shows that nearly the whole population is enlisted in the enterprize, and that the work must and will be accomplished. The first assessments were apportioned as follows-Bath, \$150,000; Augusta, 100,000; Gardiner and Pittston, 100,000; Brunswick and Topsham, 60,000; Hallowell, 50,000; Bowdoinham, 20,000; Richmond, 10,000; Freeport 10,000; and all agreed to go to work and fill up the list. It has since been found that Augusta is good for at least 125,000. The subscriptions in Gardiner yet; while Brunswick and the other towns on the line will soon fetch up and exceed theirs.

"Thus far have the subscriptions progressed. such a community to back it, can have but little from authority, that a Boston engineer has been of the starting point of the Oregon railroad-

now is off."

A company of engineers are now employed in surveying the southern portion of the Hampshire and Franklin railroad, on that portion of the road lying between Hockanum and Willimansett, a distance of seven miles. Individual land boundaries num and Grout's in Montague,

can Railroad Journal.

Newcastle, (Del.,) January 4, 1847. There was a communication in one of the November numbers of the Journal-which, having been mislaid, has just come under my notice-signed E. H. Derby, on the subject of Mr. Whitney's Oregon railroad; and as I differ somewhat from Mr. Derby's views on that subject, I trust that gentleman will not take it amiss, if, in the kindest spirit in the world, I point out wherein I differ, and my reasons for so doing.

Mr. D. starts by mentioning the vastness of the undertaking, and the interest that has already been the country, which is very true, and is a striking instance of the effect of patient and continued perseverance directed to one great object-of which few persons have evinced more than Mr. Whitney, or with, at the outstart, a poorer prospect, perhaps, of success. When, about two years since, in a personal interview with Mr. Whitney at his rooms, where books, maps, charts, etc., bearing on the subject, were freely scattered on all sides, to whose examination, comparison and digestion he was devoting the energies of his mind, I received from himself a development of his great plan-which I considered so feasable, that I intended to accompany him in his explorations of the country to the Missouri river, which he then had in view, and afterwards accomplished, but I was prevented by cir-cumstances. It was, I confess, with some misgivings that I opened the subject to my friends' and acquaintances, lest the smile of incredulity, which it often met with, should be my only reward. I mention this to show the change that has taken place in public sentiment on this subject in the brief space of two years-the result of Mr. Whitney's singlehanded efforts.

Mr. D. then proceeds with his first objection to Mr. Whitney's plan, viz: the great length of the work-say 3000 miles from one seaboard to the other and the consequent heavy charges to which merchandize will be subjected in passing over it. This your correspondent puts at \$45 per ton, or at the rate of \$1.50 per ton per 100 miles, or the lowest rates at which merchandize is transported on the railroads of the country. While I admit this latter position, I consider \$45 per ton too high, for several reasons. In the first place, merchandize starting from New York, for instance, would pass by the present improvements to Lake Erie, and then availconsiderably exceed their quota of 100,000; Bath has ing itself of the navigation of the lakes, reach the 125,000, and will go up to 150,000, if not 200,000 commencement of the Oregon railroad, considerably less than at the rate of \$1 50 per ton per 100 miles. The English trade would probably pass up the St. from the mark for a road of first rate capacity, Lawrence to Lake Ontario, and thence availing itroad passing through such a country, and having self of the increased facilities lately afforded by the by Mr. Whitney's calculations, gives \$72,000,000. enlargement of the Welland canal, up the lakes to chance of failure. The Augusta Journal states, as "Whitney"-for such I would suggest as the name all complete. If, then, the cost of working and reemployed to superintend the construction of the road also at a less cost than the rate before spoken cent, of a sum that would pay six per cent. interest,

both as a company and as individuals, to act in vertised in season to break ground as soon as the and the "flowing sheet, and glancing keel," to which your correspondent poetically alludes, would do much of the rest.

I think I have already shown that the charges may be reduced from \$3 to \$5 per ton on this portion of the route. Now let us see if it will not fairly admit of further reduction on other portions. This have also been taken on the line between Hocka. is a work that, singularly enough, will cost no man a dollar; no man will be able to say that It has taken one cent from his pocket. Nature has kindly furnished the capital-she will be the great shareholder; and she will require no dividend beyond the increased welfare and enjoyment of the creatures she has placed here to be the recipients of her bounties. The vast outspread and unoccupied prairies. and the tangled and untrodden forests, are the capital. This is an answer to Mr. D.'s third objection -the great absorption of the wealth of the country. The wealth that is to build the railroad lies hidden in the soil, and the plough of the emigrants which the railroad shall invite to these regions, shall turn it up, and render it available.

As to Uncle Sam-there never was an uncle beawakened to it in the public mind in every part of fore that had so much money to throw away in a quarrel, and so little for any purpose that squints toward usefulness. If dame Nature has ever signed, sealed and delivered any title papers by which he claims these regions, he will doubtless rejoice at such a disposition of them; as at the present he appears much inclined, by such devices as land graduation, preemption, etc., to shake himself clear of as much of his landed estate as possible.

By these remarks I mean, that whereas a profitable investment of capital with reference to cash dividends is always the first point considered in ordinary enterprizes. This would look to no such result. It is a great national affair, whose dividends will be rich in public good-in business relations and good-fellowship with the most unfrequented parts of the world, and in an iron bond of brotherhood reaching from Maine to Oregon. We might as well require of the navy to pay six per cent. interest, or the "small fort" below your city to declare semi-annual dividends, as to make that a condition on which should depend the construction of the Oregon railroad.

If, then, we leave this condition out of sight, and I appeal to Mr. D. whether we may not-if indeed his calculations contemplated such a result-a tax upon the business of the road barely sufficient to work it, and keep it in repair, is all that is required. And as the ordinary expense of maintaining and working railroads, may, it is believed, be assumed at 50 per cent. of the gross income—the other moiety being consumed in the shape of returns upon the capital employed-it follows that the Oregon railroad could transport both goods and passengers at one-half the cost of other railroads. But as the passenger business would bear to be faxed at the ordinary rate of, say, three cents per mile (if necessary) the charges for freight could be still further reduced. if desirable.

If we call the cost of the road, agreeable to your correspondent's estimate, and I think he is not far \$30,000 per mile—this, at 2,400 miles, the distance This is to be understood as including equipments pairs amount to \$4,320,000 per annum-or 50 per who will enter upon his duties forthwith; that they of. In short, instead of merchandize being subjectare warranted in saying that the road is now bugues, ed to railroad charges for the distance of 3000 miles, business is necessary, and at what rates, to obtain that proposals for grading the whole line will be ad- 22 or 2300 would be the extent, (unless in winter) this sum. Well, 50,000 passengers, at, we will say,

be safe, \$1 per ton, per 100 miles, or \$24 per ton, terest in England is not so high as I have placed it; probability would. equals \$1,920,000; and altogether the above sum of but what merchant expects, even there, to make less? Still your correspondent's suggestion is doubtless \$4,320,000—an extravagant sum, as it would appear, Add to \$63 the freight charges by the Oregon worthy of consideration; and the route he proposes, for the purpose. This is a number of passengers, route, four months' interest, or \$10, and one-half the it cannot be denied, has its advantages. But as we and an amount of tonnage, equalled by perhaps half of the railroads of the country, and evidently \$78 as the charges by the Oregon route per ton; or and facilitate intercourse and good feeling amounts. far below the mark. I give these statements to show what a comparatively small amount of business the road could live on.

ney tells us, "of Mexico, South America, (western coast,) with all the islands in the Pacific, with Chi- \$1 50 per barrel, or 30 per cent.; 35 to 40 cents per na, with Japan, with Manilla, with Australia, bushel for grain, or 33 per cent. on wheat, and 50 with Java, and with all India"-to the mouth of the per cent. on corn. One advantage alone that would Columbia. Mr. D. call it \$15 per ton, still rather far more than counterbalance the above extra charge high, I think. The distance between these points is of \$8 per ton, would be the certainty with which about 6,000 miles, and to China, by Cape Horn, goods might be looked for at a given time; thus renearly 18,000. Now if \$30 a ton is the price of moving the great uncertainty attending that trade, freight from New York to China by sea, we cannot from the fluctuations in the market between the confairly put the freight to Oregon from China, over a ception of an enterprize, and its completion. A calm, smooth ocean, like the Pacific-of which a merchant can tell to-day what an article is worth, scientific gentleman attached to one of our national and can form some conception of what it will be vessels says, that he never saw upon its surface a wave of more than 20 feet in height-especially if

countries will get to be when the Oregon railroad is has just met my eye, that I am borne out in assumall that Mr. D. assumes as to charges, with the ex-ception of that from the lakes to the Atlantic; on tonsofshipping; which is equal to \$411 per ton value. which account I deduct \$3 per ton. Of course it is If we allow for the large amount of stores, etc., can the accommodation of strangers, without a quid pro nearly right. The commerce of China, Asia gene-

add \$30, the interest on capital, and \$30 for freight, up, would be of little importance, so that it finally veroment has to be transacted by writing."

former amount of insurance, or \$5, and we have want this railroad for our own purposesbut an excess of \$8. It will not be difficult to see sufficient advantages to result from the latter route to more than counterbalance this, which is equal to Whitney's plan is the true one. But I think your correspondent's estimates might but 14 per cent, upon the capital; and the charge of tween this country, England and Europe, viz: flour worth three or four months hence; but as the dis-

country and the the East-or rather "West," as these named above; and it will further appear, a fact that completed—but I shall now speak of the trade of ing the value of each ton of merchandize which England and Europe in connection with this chan-passes between the two countries at \$500. In the nel. And with reference to this trade I will admit year 1843, the total of imports from China amounted not to be expected that we shall build railroads for ried on these long voyages, it will be seen that I am therefore the allowance of \$1 50 per ton per rally, and the Sandwich Islands, amounts to about 100 miles, from Oregon to the lakes, is correct, I 16,000 tons per annum, or 32,000 both ways. This think, as applied to this trade. We have then \$57 will show what the Oregon railroad can do towards from China to the Atlantic coast and \$6 thence to

think, as applied to this trade. We have then \$57 from China to the Atlantic coast and \$6 thence to Liverpool, by sailing vessels, gives \$63 per ton, in this comparative scale of charges.

The time occupied in sending out goods, or specie, to China, and getting a return, is not less than 12 months. Now if every ton of goods that is sent to or returned from China, is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say, if every pound is worth \$500, that is to say if every pound is worth \$500 were say, if every poun

two cents per mile, or say \$50 each, gives \$2,500, and we have \$70 as the charges on a ton of merpeopled their remote regions; if the through traffic

000; and 75,633 tons of freight, at, we will say, to chandize by the "glancing keel." The rate of inshould be sufficient for its maintenance, as it in al

ourselves to enable us to convert the untiodde wastes to our uses-after all it will appear that Mr.

I trust, Mr. Editor, I have given your corresp be still further reduced, viz: the cost of shipment \$78 per ton, but 6 per cent. Compare this with the dent no cause of offence in my sejections to his objections to his objections. I certainly have endeavored to avoid so doof importance, however, but also that, as Mr. Whit- cles which compose so much of the commerce be- ing, as between us of the profession there should be nothing but harmony. But holding an honest dif-ference of opinion, I have expressed it, I hope cour-teously. Yours very truly. F. P. Holcom.

Americans in Russia.

The following extract of a letter from a Philadelphia engineer, now in Russia, and who is a machinist of ability and repute, is going the rounds of the press, from the Philadelphia Enquirer, and we give place to it as containing matters interesting to our readers. It is dated Herald Mecanical Works. Alexanderoffsky, Russia, Nov. 4.

"In the beginning of our operation here, we had very much to do, in organizing this mammoth e wave of more than 20 feet in height—especially if tance in time recedes, the uncertainty increases in a geometrical ratio. It is this that secures to the ocean steamers their freights—together, of the will use Mr. D.'s figures for this item.

We have, then, \$15 to Oregon, \$24 to the lakes, and for the remainder, lake and canal carriage—about 600 miles—I shall say \$6, and altogether \$35 for but \$5 more than by sea, besides a saving in insurance, and interest on capital employed; but I shall make a more distinct reference to these items hereafter.

I have heretofore spoken of the trade between this country and the the East—or rather "West," as these country and the the East—or rather "We of engines to be out six a month to prevent running out of materials. We have turned out nine a month, and the number for the last six months is 65. and the number for the last six months is 65. In our car shops we are getting on very finely; we have delivered to the government 200 platform cars, and 300 box cars, and are now finishing five box cars every day—they are large, eight wheel cars, 30 feet long. We have not yet commenced on the passenger cars, but have completed the building of a shop for that purpose. The building is 375 feet long by 60 wide, and divided into three apartments, the first for preparing the work, the second for erecting, the third for painting. The number of cars that we have to make is 2000 box, 580 platform, and 70 passenger cars—making the complement for the 70 passenger cars—making the complement for 5,300 trucks in the first order. Independent

power loom was first brought into successful operation on this side of the Atlantic. The success of that establishment had satisfied us that the time had arrived for undertaking the manufacture and printing of calicoes, and in lowing able article on this railroad, with the anthe summer of 1821 we made an excursion into New Hampshire, in search of a suitable water power.

"Soon after our return, the idea was suggested to Mr. Jackson of purchasing the stock of the Pawtucket canal on the Merri-this nature, for which the country affords an oppormack river, together with such lands as tunity. It will enjoy the double advantage of passmight be necessary for using the great water ing through a tract of country of large population, power which might be created by its enlarge collected in large and flourishing villages, and enment. He communicated the same to me. bilities, and it may be worth recording that so rectors of the Kennebec and Portland railroad sensible were we of its future importance, last week, in this city, it was determined to that I distinctly recollect one remark made put the whole line to Augusta, with the perty was conveyed. The enlargement of ceeding with the work as fast as is practicable the canal was finished during the two follow- to do so. It is believed that the road to Au-

In a recent letter, published in the Boston papers, for the opinion which formerly prevailed ex- line of any road of the same length in New Mr. Nathan Appleton, of that city, gives the annextensively, that occupation in manufactories are engaged in commerce and manufactures, was less favorable to morals than other mataking of the now populous and flourishing city of Lovell, Mass. He says:

"As connected with the matter, and as converse in the connected with the conne stituting the germ of the present city of Lowthe right of a mere subsistence, which gives is found to be the most sure source of profit to
ell, the following circumstances may be it character and standing in society, and conthought interesting. Mr. Patrick T. Jackson stitutes the elementary differences between the travel and transportation that would pass and myself had been amongst the original as sociates who established the Boston Manufacturing company of Waltham, in which the perpetuated by our institutions, is my ardent boats for the last two or three seasons.

Kennebec and Portland Railroad.

The Boston Daily Advertiser—one of the soundest business papers in the country—publishes the folnexed preparatory remarks :-- "We are glad to learn that the enterprize bids fair to be undertaken with energy, and to be prosecuted to a speedy completion. We agree with the writer in the belief that this road promises to be among the most successful works of gaged in commercial and manufacturing pursuits, After ascertaining that Mr. Kirk Boott was and also of forming a thoroughfare for the travel of willing to join us in the enterprise, and be- a large population residing beyond its two termini. effect, we proceeded, through trustworthy the commercial and political capitals of the state—agents, to purchase the canal, and the most and it will at the same time connect with both of and it will at the same time connect with both of these had been secured, that we thought pro-per to visit the scene. I well recollect the Gardiner, and it will form a part of the route from first visit. It was in the month of Novem. Boston and Portland, towards the whole eastern por-

to North Yarmouth, the road to Brunswick,

It has been objected to this road that it wil! have to compete with the boats for a large portion of the year, and thus reduce the amount of its profits. So far as the public is concerned, the only effect this competition will have, will be to insure a low rate of fare, and so far as the stockholders in the road are interested, low fares will yield as much as high fares, where the population is dense and there is an extensive region from which the travel can be drawn. More than three fourths of the whole population of Maine are within forty miles of the sea coast; and the obvious policy of securing the greatest advantage to a railroad, is to run it through the large towns near the coast, till it strikes the Kennebec river, the centre of the population of the state, and then run up that river to some point where a road would strike off to the east .-This is what this road proposes; and it is conagents, to purchase the canal, and the most and it will at the same time country the large towns of fidently believed by the subscribers to the important adjoining lands. It was not until them, as well as with this city, the large towns of fidently believed by the subscribers to the body had been secured that we thought prowill be one of the most profitable roads connecting with this city. Some of our large capitalists have subscribed liberally to the ber, 1821, and a slight snow covered the ground. The party consisted of Mr. P. T. Jackson, Kirk Boott and myself. We permulated the ground and scanned the capabilities and it may be mostly associated and scanned the capabilities and it may be mostly associated and promain and promain, towards the whole eastern pornecting with this city. Some of our large capitalists have subscribed liberally to the stock, and we hope that others, and the business men of the city, who are more immediately interested in this enterprise, will not withhold from it their support.

Engilsh Items. The " Great Britain."-It appears, says by one of the party, that some of us might probably live to see the place contain 20,000 inhabitants. We proceeded with new assomit. The subscription to the stock has been nouncing the abandonment by the directors ciates, to organize the Merrimack Manufacturing Company, with a capital of 600,000 within the last ten days, and with the former er, was incorrect. By a report for Manufacturing the whole are dollars, to which corporation the whole pro-subscriptions, it warrants the Directors in pro-Brunel, (the company's engineer) on her present state, just published, we learn, that the canal was finished during the two following summers, and on or about the 1st day of September, 1823, the first water wheel performed its evolutions. The city now contains, I am told, upwards of 30,000 inhabitance. It is believed that the road to Author and the expectation is entertained, that by an arrangement with the Directors of the Atlantic and St. Lawrence road to run upon that the bottom, under the boilers and engines. The vessel has been evidently thumping on "I certainly look back with satisfaction if not to Bath, may be opened for travel with the rocks, and almost entirely upon this part "I certainly look back with satisfaction upon the part which I have had in leading to this result. I do not say this with any reference to pecuniary interest. I could not say it, did I not conscientiously believe that the introduction of the cotton manufacture has added greatly to the mass of human happiness in those immediately concerned in it, as well as to the aggregate wealth and prospiness in those immediately concerned in it, as well as to the aggregate wealth and prospinesy it, did I perceive in the system any tendency toward a relaxation of the moral purity which has ever been a characteristic of our beloved New England. My mind was early turned to a consideration of this questions. The proposed for travel with the rocks, and almost entirely upon this part of the bottom, from the first few days after she grounded—and at present, in all probability, her whole weight is resting on this belity, her whole weight is resting on this part; yet, notwithstanding this, she is pertectly straight, and has not broken or even and their business relations, and we have a sprung an inch in the whole length. The boilers have been forced up about 15 inches, and one of the cotton, from the first few days after the of the bottom, from the first few days after she grounded—and at present, in all probability, her whole weight is resting on this part; yet, notwithstanding this, she is pertectly straight, and has not broken or even strong interest in the success of an enterprize that will afford facilities for improving and extending this connection. The proposed road runs through and connects all the large done—all of which could easily be repaired towns in Maine on the west side of the Kenden and the process of an enterprize that will afford facilities for improving and one of the condensers has been lifted up about 8 inches, breaking the air-pump. At the principal towns in Maine on the west side of the Kenden and the process of an enterprize that will afford facilities for improving and the large that will afford facilities to protect her from the sea.

The Salt Trade of France.-We understand, that in consequence of petitions from several large firms, embarked in the Newfoundland fishery, to be allowed to employ, in 1847, the salt of Spain and Portugal, (which the captains could take in on their passage) for the curing of fish, instead of be iron is good, and an advance daily expected, ing restricted to that of France—the Minister of Finance has consented, that all vessels now equipping for the Newfoundland fishery, may lay in salt from those countries. This is a great concession on the part of the French two thirds of their time. Various reasons Government, itself the chief monopoliser of are assigned for the deficiency in general or-Government, itself the chief monopoliser of the salt trade; and it is hoped will lead ulti- ders; but, as we are not conversant with the mately to a reduction in the import duties on right one, we cannot offer an opinion.—

British and other salt, at present next to pro
Monmouthshire Merlin. British and other salt, at present next to prohibited entering France.

"Gun Tow" applied to Blasting.—A gen-tleman, who has been a manufacturer of gunpowder, in the west of Scotland, for the last 20 years, has been successful in several experiments with gun tow and gun sawdust, for blasting purposes. A perfectly satisfactory trial was made, on Tuesday last, (through the politeness of Mr. McCallum, at the Lady Mill Quarry, in the presence of Professor Penny, and a number of other scientific gentlemen.
One of the experiments was with a bore of 3 One of the experiments was with a bore of the experiments was was a bore of the experiments was a bore o down about 13 or 15 tons in weight—the effect is represented as "splendid."

New Locomotive.-Mr. Galloway, it is stated, is now trying an experiment on the Great Western Railway, at Maidenhead, up an incline of 1 in 19, from the road below to the station above, with a new species of locomotive. The principle is to do away with the driving wheels altogether, and to connect two horizontal wheels, instead of the driving wheels, with the pistons. These wheels run before, and press the opposite sides of a rail between the other rails by means of leverage gear; and, from their bite on that rail, they incline mentioned.

Antimony Mine in Scotland .- It was announced, some time ago, that a rich mine of antimony had been discovered on the estate of the Marquis of Bute, in the parish of Cumnock. It has now been wrought for some time, and is giving employment to about a dozen hands, and is in every way likely to turn out profitable to the noble proprietor. The difficulty of access to it—the mine being situated on the top of an eminence called Harehill—is attended with considerable expense.-Kilmarnock Journal.

up where she is, and that the main object is coupled, the diameter being about 5 ft. We be necessary briefly to inform your readers

Cymbrain Boiler Plate Company .- We hear that this company, whose works we no-ticed favorably in a recent number, have already received extensive orders for plates; and, amongst others, from Messrs. Fairbairn and Sons, of Will Mall, London, iron shipbuilders of first rate eminence. Mr. W Fairbairn is, we believe, the gentleman whose experiments, in relation to the tubular bridge over the Menai have excited so much attention lately in the engineering world .-Monmouthshire Merlin.

Nova Scotian ports in the bay of Fundy, and will shorten the distance for the coal vessels from the United States. The coal is said to

be of excellent quality.

Irish Railways.—The Board of Works has given its sanction to the full amount of the presentation, for £16,000, to the Waterford and Limerick Railway at Cahir sessions, and West Isfa and Offa barony will be enabled to afford employment to every man therein in want of it.

French Railways.—The Minister of Public Works, has just nominated a commission produce the traction of the train in lieu of the to report on the experiments commenced on driving wheels. It is said, that an engine of the Sceaux Railway, constructed after a systhis kind has drawn 30 tons readily up the tem of curves of small radius and worked by articulated carriages. The commission is also to report on the proceedings of the atmospheric railway established from Nanterre to St. Germain.

Maine Railroads.

acquainted with the railroad interest in New England, gives the annexed particulars in relation to ducts of the "mighty west" would be so inthe roads, in Massachusetts, New Hampshire, and Maine, which will prove interesting at this time .-The railroad "fever" is at a high pitch in the eastern country, and the people in that section, are very busy just now with the subject. The Courier's cor-

learn that several locomotives are in course of the Portland, Saco and Portsmouth railroad, uniting at South Berwick with the maine, and at Portsmouth with the Eastern railroad, is the only road now extending from Portland, west. A charter, however, was granted at the last session of our Legislature, for a railroad from Great Falls, at the New Lawrence of the course of the several locomotives are in course of the locomotive are in course of the several locomotives are in course of the several locomotive are in course of the locomotive are locomotive are in course of the Hampshire line, through Alfred, Buxton, and Gorham, to Portland, which, if constructed, will make two separate roads from Boston to Portland, although the way business on part of this new route would be considerable, yet it would seem almost a waste of capital to build both roads, when as the public suppose, a little mutual concession on the part of the present Directors of the upper and lower routes, one road, from Berwick, might accommodate all parties. If the contemplated upper route is built, it must materially affect the stock of the Portland, Saco and Portsmouth, and also of the Eastern railroad -The upper route would avoid the long bridges and the ferry on the lower route. A survey of this upper route has lately been made, at the expense of the Maine railroad corporation; but it is doubtful if the road can be built at present, without the aid of the Maine railroad.

East of Portland, the Atlantic and St. Lawrence railroad, connecting Portland with Montreal, Canada, has been located and let to con-tractors as far as Danville, a distance of 30 miles. About 15 miles is already graded, and as the work on the remainder is progres sing this winter, the road will be ready for the rails early in the summer, and the cars run as far as Danville before next winter.

Additional sections will be put under contract in the spring, and this road will steadily progress until it meets the Canadian part of the work at the line. They have about the same number of miles under contract on the Canadian side, extending eastwardly from Montreal.

This road will form one of those connect ing links between the Atlantic and the great west, which Washington's comprehensive glance was, we believe, the first to suggest.

In conversing with a western gentleman, well acquainted with the business of this fruitful section of the Union, which Portland, Boston, New York, Philadelphia and Balti-more are all striving for, he remarked that there was no cause for any jealousy between these respective cities in relation to this trade, A writer in the Boston Courier, who seems to be for that by the time they had completed their as their respective lines could accommodate.

Rotary Steam Engine.—Mr. A. Buffum, a member of the "National Association of New Locomotive.—On Monday, one of the largest locomotives ever constructed for the narrow gauge, was taken from the foundry of Messra Bury, Curtis and Kennedy, to the railway station in Crown street. It was drawn by 17 horses, and seemed to attract much attention. The engine has six wheels, New Grist Mill.—We have been shown, says the Eureka, the model of a mill, invented by Asa Barber, of Stephentown, Rensselater county, N. Y., and now the subject of a pending patent. It acts upon features truly novel. The grinding is effected by first cracking the grain, when it is passed to another chamber, where it is reduced still more It may then, if not sufficiently fine, be returned to the crushing apparatus as often as it shall be required so to do, to produce good flour. The machinery consists of a peculiar fluted cylinder which operates upon a concave bed of furrows or grooves. Mr. B., who is a member of the "National Associa tion of Inventors," promises that we shall fully describe his mill, with engravings, at a subsequent time.

Ocenitive are now prepared to receive a report of the Sudestibes are now prepared to receive a factor of the well known and approved Raading, for Railroad Turnouts. This invention, for for Railroad Turnouts. This invention, for once, we prepared to receive a factor of the sudition, for the well known and approved Raading, are now prepared to received and content of the well known and approved Raading, for Railroad Turnouts. This invention, for for Railroad Turnouts. This invention for for Railroad Turnouts. This invention for for Railroad Turnouts. The sadding and their trains from running of the trac sequent time.

sequent time.

Computing Machine.—We have seen a machine for computing figures by any of the rules of addition, subtraction, multiplication or division. It operates in the most simple manner, and is equally simple in its construction. This is the invention of a Pole, by the memory of Slonimski, who received very large presents from the emperor of Russia, for his invention. We can say of our own knowledge that this is an excellent machine, and can do any sum in those rules with great speed and accuracy. Mr. S. has assigned his claim to a patent right in the United States,

January 22, 1847.

January 23, 1847.

January 23, 1847.

January 23, 1847.

January 24, 1847.

January 25, 1847.

January 24, 1847.

January 25, 1847.

January 26, 1847.

January 25, 1847.

January 26, 1847.

Janu speed and accuracy. Mr. S. has assigned his claim to a patent right in the United States, to Mr. S. J. Neustadt, of this city who is applying for, and will probably obtain the same. The machines may be made and sold for from \$3 to \$10 each.—Eureka.

The part of English Heavy H Rails—60 lbs. to the yard now in store, landing from the vessel, and on ship board to arrive, for sale on most favorable terms by DAVIS, BROOKS & CO., Jan. 2. [Itt] 68 Broad St., New York.

BACK VOLUMES OF THE RAHLBOAD IN The Rails of December next. Apply to FULLER & BROWN, Agent, No. 139 Greenwich, corner of Cedar street.

Sam'L KIMBER, & CO., No. 139 Greenwich, corner of Cedar street.

September 18, 1846.

Valley, Have now a supply, and respectfully solicit the patronage of persons engaged in the making of Machinery, tor which purpose the above makes of Pig Iron are particularly adapted. They are also sole Agents for Waison's celebratake orders or make contracts for Rails, deliverable of Fire Bricks and prepared Kaolin or Fire Clay orders for which are promptly supplied.

SAM'L KIMBER, & CO., No. 139 Greenwich, corner of Cedar street.

September 18, 1846.

10139

Valley,
Have now a supply, and respectfully solicit the patronage of persons engaged in the making of Machinery, tor which purpose the above makes of Pig Iron are particularly adapted.

They are also sole Agents for Waison's celebrated orders for which are promptly supplied.

SAM'L KIMBER, & CO., No. 139 Greenwich, corner of Cedar street.

September 18, 1846.

10139

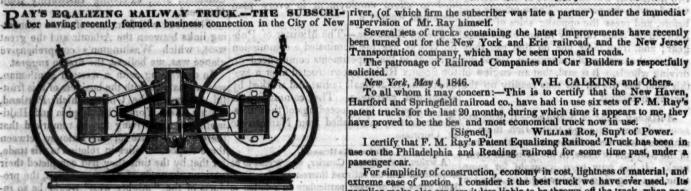
Jan. 14, 1846. [1y4] Philadelphia, Pa.

January 22, 1847.

in Mines. A full assortment of Railroad Spikes, Boat and Ship Spikes. They are prepared to exe-cute orders for every description of Railroad Iron 111

THE SUBSCRIBERS, AGENTS FOR

Codorus,
Glendon,
Spring M.l and
Valley,
Have now a supply, and Pig Iron.



York, expressly for the manufacture of the newly patented and highly approved Railroad Truck of Mr. Fowler M. Ray, is ready to receive orders for building the same, from Railroad Companies and Car Builders in the United

States, and elsewhere.

The above Truck has now been in use from one to two years on several roads a sufficient length of time to test its durability, and other good qualities, and to satisfy those who have used it, as may be seen by reference to the certificates which follow this notice.

There have been several improvements lately introduced upon the Truck, such as additional springs in the bolsier of passenger cars, making them delightful riding care—adapting it to tenders, trucks forward of the locomotive, and freight cars, which, with its original good qualities, make it in all respects the most desirable truck now offered to the public.

Orders for the above, will, for the present, be executed at the New York Serew Mill, corner 33d street and 3d avenue, (late ?. Cooper's rolling mills) and at the Seam Engine Shop of T. F. Seror & Co., foot of 9th street, East

solicited

New York, May 4, 1846.

W. H. CALKINS, and Others.

To all whom it may concern:—This is to certify that the New Haven,
Hartford and Springfield railroad co., have had in use six sets of F. M. Ray's
patent trucks for the last 20 months, during which time it appears to me, they
have proved to be the best and most economical truck now in use.

[Signed,]

WILLIAM ROS, Sup't of Power.

I certify that F. M. Ray's Patent Equalizing Railroad Truck has been in
use on the Philadelphia and Reading railroad for some time past, under a

For simplicity of construction, economy in cost, lightness of material, and extreme ease of motion, I consider it the best truck we have ever used. Its peculiar make also renders it less liable to be thrown off the track, when pas-

extense ease of motion. I consider it the less truck we have ever used. Its peculiar make also renders it less liable to be thrown off the track, when passing over any obstruction. We intend using it extensively under the passenger and freight cars of the above road.

Reading, Pa., October 6, 1845. [Signed,]. G. A. Nicoll,
Supt Transportation, etc., Philadelphia and Reading Railroad.

To all whom it may concern:—This is to certify that the N. Jersey Railroad and Transportation company have used Fowler M. Ray's Truck for the last seven months, during which time it has operated to our entire satisfaction. I have no hesitation in saying that it is the simplest and most economical truck now in use.

Jersey Gily, November 4, 1845. N. Jersey Railroad and Transp. Co.
This is to certify that F. M. Ray's Patent Equalizing Railroad Truck has been in use on the Long Island railroad for the last year, under a freight car,
For simplicity of construction, economy in cost, lightness of material and ease of motion, I consider it equal to any truck we have in use.

Long Island Railroad Depot, [Signed,] John Leach,

Jamaica November 12, 1845. [1919 Sup't Motive Power.



PICH & CO'S IMPROV MANDER SAFES.

Warranted free from dampness, as well as fireand thic

Particular attention is invit-ed to the following certificates, which speak for themselves:

Certificale from Mr. Silas C. Field, of Vicksburg.

Missisppi.

On the morning of the 14th ult., the store owned and occupied by me in this city, was, with its contents, entirely consumed by fire. My stock of goods consisted of oil, rosin, lard, pork, sugar, molasses, iquors, and other articles of a combustible nature, in the midst of which was one of Rich's Improved Patent Salamander Safes, which I purchased last October of Mr. Isaac Bridge, New Orleans, and which contained my books and papers. This safe was red hot, and did not cool sufficiently to be opened until 16 hours after it was taken from the ruins. At the expiration of that time it was unlocked, when At the expiration of that time it was unlocked, when its conteats proved to be entirely uninjured, and not even discolored. I deem this test sufficient to show that the high reputation enjoyed by Rich's Safes is well merited.

S. C. FIELD.

TEST No. 11.—Certificate.

By the fire which occurred in this village on the 27th July last, our Law Office, together with many other buildings, was destroyed—we had in our office one of Rich's Improved Patent Salamander Safes, which, though heated red hot, preserved, without being the least caused want preserved, without being the least caused want preserved. which, though heated red hot, preserved, without being the least damaged, many papers valuable to our clients—the envelopes of a tew papers being slightly scorched. Some twenty-tour hours after the fire, the Safe was removed, and so hot was it, that several hours were required for it to cool off. Our office was in the second story of a large brick building, all the wood used in construction of said house being pitch pine. While the Safe was red hot, one of the walls tumbled in, and so injured the lock that it was necessary to break the door open. From this test, we feel no hesitancy in recommending "Rich's Paent Salamander Safe" as entirely fire proof.

Marion. Ala... Sept. 15th. 1846.

Marion, Ala., Sept. 15th, 1846.

Still other Tests in the Great Fire of July 19, 1845.

The undersigned purchased of A. S. Martin, No. 1381 Water street, one of Rich's Improved Patent Salamander Safes, which was in our store, No. 54 Exchange place. The store was entirely consumed in the great conflagration on the morning of the 19th inst. The safe was taken from the ruins 52 hours after, and on opening it, the books and papers were found entirely uninjured by fire, and only slightly wet—the leather on some of the books was perched by the extreme heat.

RIGHARDA G. CRONGHITE. by the extreme heat. RICHARDS & CHONGHITE.

Benton, Miss., December 27, 1845. One of Rich's Improved Salamander Safes, which purchased on the 2d of June last of A. S. Marvin, 1384 Water street, agent for the manufacturer, was exposed to the most intense heat during the late dreadful conflagration. The store which I occupied, dreadful conflagration. The store which I occupied, No. 46 Broad street, was entirely consumed; the safe fell from the 2d story, about 15 feet, into the celar, and remained there 14 hours, and when found, I am told, and from its appearance afterwards, should judge that it had been heated to a red heat. On opening it, the books and papers were found not to have been touched by fire. I deem this ordeal sufficient to confirm fully the reputation that Rich's safe has already obtained for preserving its contents against all hazards. (Signed,)

New York, 21st July, 1845.

Reference made to upwards of nine hundred and fifty merchants, cashiers, brokers, and officers of courts and counties, who have Rich's Safe's in use.

The above safes are finished in the neatest man-The above sales are limited in the heatest man-Ler, and can be made to order at short notice, of any size and pattern, and fitted to contain plate, jewelry, etc. Prices from \$50 to \$500 each. For sale by A. S. MARVIN, General Agent, 1384 Water st., N. Y. Also by Isaac Bridge 76 Magazine street, New Chleans.

Also by Lewis M Hatch, 120 Meeting street Charleston, S. C.

FRENCH AND BAIRD'S PATENT SPARK ARRESTER.

O THOSE INTERESTED IN

TO THOSE INTERESTED IN Railroads, Railroad Directors and Managers are respectfully invited to examine an improved SPARK ARRESTER, recently patented by the undersigned.

Our improved Spark Arresters have been extensively used during the last year on both passenger and freight engines, and have been brought to such a state of perfection that no annoyance from sparks or dust from the chimney of engines on which they are used is experienced.

such a state of perfection that no an nonyance from sparks or dust from the chimney of engines on which they are used is experienced.

These Arresters are constructed on an entirely different principle from any heretolore offered to the public. The form is such that a rotary motion is imparted to the heated air, smoke and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust they are separated from the smoke and steam, and thrown into an outer chamber of the chimney through openings near its top, from whence they fall by their own gravity to the bottom of this chamber; the smoke and steam passing off at the top of the chimney, through a capacious and unobstructed passage, thus arresting the sparks without impairing the power of the engine by diminishing the draught or activity of the fire in the furnace.

These chimneys and arresters are simple, durable and neat in appearance. They are now in use on the following roads, to the managers and other officers of which we are at liberty to refer those who may desire to purchase or obtain further information in regard to their merits:

R. L. Stevens, President Camden and Amboy Railroad Company; Richard Peters, Superintendant Georgia Railroad, Augusta, Ga.; G. A. Nicolis, Superintendant Philadelphia, Reading and Pottsville Railroad, Reading, Pa.; W. E. Morris, President W. and R. Railroad Company, Wilmington, N. C.; Col. James Gadsden, President S. C. and C. Railroad Company, Charleston, B. C.; W. C. Walker, Agent Vicksburgh and Jackson Railroad, Vicksburgh, Miss.; R. S. Van Rensection Railroad, Lexington, Ky.; T. L. Smith, Sup't New Jersey Railroad Trans. Co.; J. Elliott, Sup't Mostitive Power Philadelphia and Wilmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Elizabeth-town and Somerville Railroad, Rooklyn.

Orders for these Chimneys and Arresters, addressed to the subscribers, care Messra. Baldwin & Whitney, of this city or to Hinckly & Drury, Boston, will be promptly executed. FRENCH & BAIRD. N. B.—The subscri







A GOLD MEDAL AWARDED THE INVENTOR BY THE AMERICAN INSTITUTE.

THE UNDERSIGNED RESPECTFUL—but 8 feet; the timber being more concentrated under road Companies, to some highly important improve—and 15 inches wide, is introduced into a square of ments he has recently made in the Herron system of the trellis for the purpose of giving an additional, Railway structure. These improvements enable and effectual support to the joints of the Rails, him to effect a very large reduction in the quantity which rest upon it. Should these joint blocks be of Timber, and cost of construction, without impair—come chafed and worn by the working, and imbeding frost, while they secure additional features of roads, they can be readily replaced without any dexcellence in the Drainage and facility of making rangement of the timbers less liable to wear.

Repairs.

The above cut represents the "Herron Track" as the seaboard. In the interior it will be considerably it is laid on the Philadelphia and Reading, and on he Baltimore and Susquehanna Railroads. The intersection of the sills of the trellis are 5 feet from centre to centre, while in the new construction they are only 2½ feet. This renders the string piece unnecessary, thus removing the only objectionable feature found in the Track.

The result of experience has proved that all Tracks constructed with longitudinal timbers, such as mud sills, and more especially, the continuous bearing

constructed with longitudinal timbers, such as mud sills, and more especially, the continuous bearing string pieces retain the rain water that falls between the Rails which, being thus confined, settles along those timbers, and accumulating in quantity flows rapidly along them on the descending grades, washing out the earth from under the timber, and frequently causing large breaches in the embankments of the Track than a drawing will do.

of the road. Whereas all water intercepted by the oblique sills of the trellis, is discharged immediately into the side ditches.

In the 5 foot plan, the Track occupies a Road bed nearly 11 feet wide, while the new construction takes

ROBLISH PATENT WIRE ROPES—FOR THE USE OF MINES, RAILWAYS, ETC.—

for sale or imported to order by the subscriber.

These Ropes are manufactured on an entirely different principle from any other, and are now almost exclusively used in the collieries and on the railways in Great Britain, where they are considered to be greatly superior to hempen ones, or iron chains, as regards safety, durability and economy. The plan upon which they are made effectually secures them from corrosion in the interior, as well as the exterior of the rope, and gives a greater compactness and elasticity than is found in any other manufacture.

Many of these ropes have been in constant operation in the different mines in England, and on the Blackwall and other inclined planes, for three and four years, and are still in good condition.

They have been applied to almost every purpose for which hempen ropes have been used—mines, heavy cranes, standing rigging, window cords, lightning conductors, signal halyards, tiller ropes, etc. Reference is made to the annexed statement for the relative strength and size. Testimonials from the most eminent engineers in England can be shown as to their efficiency, and any additional information required respecting the different descriptions and application will be given by

ALFRED L. KEMP,

75 Broad street, New York, sole agent in the United States.

Statement of Trial made at the Woolwick Royal Dock Yard, of the Patent Wire Ropes, as compared with

Statement of Trial made at the Woolwick Royal Dock Yard, of the Patent Wire Ropes, as compared with Hempen Ropes and Iron Chains of the same strength.—October, 1841.

WIRE ROPES.				HEMPEN ROPES		CHAINS.	STRENGTH
W	fire gauge number.	Circumference of rope.	Weight per fathou	Circumference of rope.	Weight per fathom.	Weight per Diamete	
	iro edi	INCH.	LBS. 02.	INCH.	LBS. 02.	LBS. INCH. 50 15-76	20
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2.49	15	200	il celes gunceu	-83 6i -03	9 4	131 122 101 7-16	101

N.B. The working load, with a perpendicular lift, may be taken at 6 cost, for every th, weight per fathom, that a rope weighing 5 lbs. per fathom would safely lift 3360 lbs.; and so on in preportion 1



LAP-WELDED WROUGHT IRON TUBES

TUBULAR BOILERS, FROM 1 1-4 TO 6 INCHES DIAMETER,

and

ANY LENGTH, NOT EXCEEDING 17 PERF. These Tubes are of the same quality and manufacture as those so extensively used in England, Scotland, France and Germany, for Locomotive, Marine and other Steam Engine Boilers,

THOMAS PROSSER

Palentee

28 Platt street, New York.

RAILROAD IRON. MOUNT SAVAGE IRON WORKS

THIS Company are prepared to execute orders for RAILROAD IRON, of any pattern, and equa in point of quality to any other manufactured.

Address
J. M. HOWE
Pres't. Mt. Savage Iron Works,

Dec. 25, 1y*

Iron Company," Danville, Pa., is prepared to execute orders for the heavy Rail Bars of any pattern now in use, in this country or in Europe, and equal in every respect in point of quality. Apply to MURDOCK, LEAVITT & CO.,

Agents. AILROAD IRON.- THE " MONTOUR

77 Pine St., New York.

RAILWAY IRON.—DAVIS, BROOKS
& Co., No. 68 Broad Street, have now in port
on Ship-board, 200 Tons of the best English heavy
H Rails, 60 lbs. to the lineal yard, which they offer
for sale on favorable terms, also, about 6 to 700 Tons now on the way, to arrive shortly, of the same description of Rail. Nov. 16, 1846.

ENGINEERS and MACHINISTS. THOMAS PROSSER, 28 Platt St. N.Y. (See

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Adv.)

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NORRIS, BRÖTHERS, Philadelphia Pa. (See adv.)
FRENCH & BAIRD, Philadelphia. (See Adv.)
NEWCASTLE MANUFACTURING COMPANY, Newcastle, Del. (See Adv.)
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